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ATTENTION

The attached page has been prepared to correct errors in Report: Vital Statistics and Induced Terminations of Pregnancy, Washington State 1987. Please insert this corrected table in your 1987 Summary.

Errata issued 8/90

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Table 8

Deaths by Age Group by Place of Residence, Washington State 1987

County and City	Total	Under 1	1-4	5-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 And Over	Age Unk
State Total	34967	681	136	179	294	381	951	1173	1691	4106	7994	9617	7753	9
Adams	100	2	–	–	2	1	1	5	8	13	23	25	20	–
Asotin	163	8	–	–	–	–	5	8	7	14	33	44	44	–
Benton	659	17	4	4	6	8	21	13	32	104	161	187	102	–
Kennewick	289	10	3	2	2	5	12	5	9	40	70	87	44	–
Richland	202	6	1	–	1	3	4	5	9	37	45	61	30	–
Chelan	431	10	2	2	7	6	8	10	14	32	105	128	107	–
Wenatchee	221	6	1	1	–	3	5	6	4	12	54	64	65	–
Clallam	589	14	3	3	10	7	8	20	29	69	142	162	122	–
Port Angeles	213	4	–	1	5	3	3	11	9	21	39	64	53	–
Clark	1486	16	7	6	19	20	30	57	78	193	353	423	284	–
Vancouver	591	5	3	1	9	11	7	16	33	77	124	171	134	–
Columbia	41	–	–	–	–	–	–	1	–	5	8	13	14	–
Cowlitz	713	9	–	1	7	12	19	21	30	81	159	192	181	1
Kelso	126	3	–	1	–	4	5	3	6	18	26	30	30	–
Longview	349	3	–	–	5	2	10	12	12	32	80	97	96	–
Douglas	189	2	–	2	3	4	4	8	8	15	53	61	31	–
Ferry	48	1	–	–	2	2	2	2	1	5	12	8	13	–
Franklin	239	2	2	2	3	9	11	8	12	34	54	61	41	–
Pasco	175	2	1	1	1	7	8	4	8	21	46	45	31	–
Garfield	23	–	–	–	1	–	–	1	–	–	10	8	3	–
Grant	363	10	4	5	4	7	9	9	17	49	82	100	67	–
Moses Lake	98	4	–	1	1	1	2	5	5	21	23	19	16	–
Grays Harbor	697	12	1	3	4	3	11	18	25	87	189	202	142	–
Aberdeen	242	4	–	1	1	2	5	8	6	26	65	65	59	–
Island	397	4	2	2	3	1	5	10	12	51	131	110	66	–
Oak Harbor	83	2	1	–	1	–	1	3	3	15	25	14	18	–
Jefferson	173	2	–	4	1	3	2	7	5	16	49	42	42	–
King	10226	188	35	50	64	84	322	381	525	1175	2252	2793	2353	4
Auburn	288	4	3	–	2	2	5	10	15	41	68	87	51	–
Bellevue	479	11	–	1	3	6	19	13	23	63	117	122	101	–
Des Moines	123	–	–	–	1	1	3	3	5	7	21	30	52	–
Kent	179	7	1	1	3	3	9	2	15	17	51	46	24	–
Kirkland	204	2	–	1	–	2	6	4	9	24	48	52	56	–
Mercer Island	114	–	1	1	2	1	–	1	8	12	25	32	31	–
Redmond	130	3	–	1	1	4	5	5	6	16	26	37	26	–
Renton	267	11	2	–	–	–	7	6	11	41	64	66	59	–
Seattle	5188	80	14	15	19	35	172	195	214	532	1082	1494	1334	2
Kitsap	1129	27	3	3	8	12	29	46	64	138	257	309	233	–
Bremerton	372	12	2	1	1	7	14	14	13	36	78	96	96	–
Kittitas	196	4	1	1	1	2	4	7	10	21	54	55	36	–
Ellensburg	93	3	–	–	–	–	3	4	2	6	21	30	24	–
Klickitat	137	2	–	–	–	5	6	7	6	12	31	37	31	–
Lewis	569	8	3	2	6	7	11	11	18	61	147	151	144	–
Centralia	207	1	–	–	3	–	1	4	6	17	49	52	74	–
Lincoln	123	–	1	2	1	1	2	2	8	16	21	26	43	–
Mason	303	3	1	2	4	3	10	9	14	34	95	70	58	–
Okanogan	294	7	–	2	6	4	8	11	8	28	72	78	70	–
Pacific	262	–	–	3	2	4	7	7	4	32	62	89	52	–
Pend Oreille	87	–	–	1	–	3	1	–	4	8	30	30	10	–
Pierce	4060	110	22	20	37	50	121	142	222	530	934	1034	836	2
Puyallup	231	4	–	–	1	1	1	6	14	17	47	67	73	–
Tacoma	1769	48	6	6	14	19	50	55	83	206	383	463	436	–
San Juan	80	–	–	–	–	–	1	2	4	12	17	28	16	–
Skagit	685	13	2	1	4	5	10	28	36	74	156	187	171	–
Anacortes	138	1	1	–	2	1	2	–	6	13	24	49	39	–
Mount Vernon	172	2	–	–	–	1	2	5	10	18	31	43	60	–
Skamania	64	–	–	1	1	–	3	4	7	5	13	19	11	–
Snohomish	2695	73	17	16	23	26	79	94	143	329	587	724	583	1
Edmonds	281	2	2	2	–	–	2	8	8	37	53	89	78	–
Everett	863	22	6	5	4	6	25	19	26	75	135	184	156	–
Lynnwood	203	7	1	–	2	2	6	8	11	26	47	48	45	–
Mountlake Terrace	90	5	1	–	–	1	–	7	8	19	15	27	7	–
Spokane	3126	64	7	17	25	32	89	92	148	358	840	896	758	–
Spokane (city)	2008	36	6	5	12	19	55	53	85	222	397	600	518	–
Stevens	248	3	–	3	4	3	9	10	8	25	62	63	58	–
Thurston	1065	13	5	7	8	11	18	42	42	137	253	282	247	–
Lacey	186	2	1	–	1	–	1	3	4	23	29	58	64	–
Olympia	365	3	1	1	2	2	7	16	7	39	80	108	99	–
Wahkiakum	37	–	–	–	–	–	–	–	3	1	10	17	6	–
Walla Walla	509	11	1	–	3	3	16	11	16	44	110	153	141	–
Walla Walla (city)	315	7	1	–	1	3	8	9	11	30	63	104	78	–
Whatcom	910	18	4	1	6	14	21	22	32	91	213	263	225	–
Bellingham	482	6	1	–	1	7	9	10	12	50	102	155	129	–
Whitman	244	4	–	1	–	4	9	6	13	22	50	80	55	
Pullman	55	2	–	1	–	–	5	3	4	3	11	15	11	
Yakima	1607	24	9	12	19	25	39	43	80	187	364	467	[illegible]	
Yakima (city)	617	8	2	1	4	7	10	14	29	71	127	190	[illegible]	

S8363-1-U

Report:

VITAL STATISTICS AND INDUCED TERMINATIONS OF PREGNANCY

1988

1889

DEPARTMENT OF HEALTH
State of Washington

Vital Statistics

and

Induced Terminations of Pregnancy

Washington State

1988

Department of Health

Division of Health Information

Center for Health Statistics

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Introduction

This *Report: of Vital Statistics and Induced Terminations of Pregnancy 1988* contains a summary presentation, in tabular form, of the vital events (birth, death, marriage, divorce) and induced terminations which occurred during the calendar year 1988. In the interest of easy comparison, essentially the same format of tabular presentation has been continued as was used in previous reports, with the following exception:

Data on Hispanic origin have been added to Birth tables 1A, 2, and 8 and Death tables 1A, 1B, 7, and 22. In past summaries, the only Hispanic data were provided by a racial entry of 'Mexican/Chicano'. This change provides more complete coverage of the Hispanic population and emphasizes the fact that persons of Hispanic origin may be of any race. Because of this change, the 1988 Hispanic origin data are not comparable to previous entries of 'Mexican/Chicano' and should not be used in conjunction with these earlier data to study trends.

Two tables have been dropped from the Induced Terminations of Pregnancy chapter. They were tables showing complications by 1) type of procedure and 2)gestation of pregnancy over a five year period. Methods of tabulating complications have changed over the past five years. Such data, therefore, would be misleading.

For those who find that the data in this report do not meet all their needs, additional data are available and can be obtained by calling Statistics at (206)753-5938.

Table of Contents

Introduction iii

Map of Washington State 1

Trends 3

Figure 1 Birth Rates (per 1,000 population) Washington State, 1915-1988 6
Figure 2 Death Rates (per 1,000 population) Washington State, 1915-1988 8
Figure 3 Infant Death Rates (per 1,000 live births) Washington State, 1915-1988 10
Figure 4 Fetal Death Ratios (per 1,000 live births) Washington State, 1915-1988 12
Figure 5 Total of Induced Abortions per Year, Washington State Residents, 1974-1988 13
Figure 6 Total of Induced Abortions per Year, Washington State Occurrences, 1974-1988 . . 13
Figure 7 Abortion Occurrences by Age Group, Washington State, 1987 and 1988 14
Figure 8 Resident Abortions by Age Group, Washington State, 1987 and 1988 14
Figure 9 Maternal Deaths Attributed to Abortion, Washington State Residents, 1950-1988 . . 15
Figure 10 Complication Rates by Type and Trimester, Washington State Occurrences, 1988 . . 16
Figure 11 Complication Rates and Second Trimester Procedures, Washington State Occurrences, 1982-1988 16
Figure 12 Abortion Ratio by Year, Washington State Residents, 1974-1988 17
Figure 13 Comparative Rates by Year, Washington State Residents, 1974-1988 17
Figure 14 Age-Specific Fertility Rates, Washington State Residents, 1978-1988 18
Figure 15 Age-Specific Abortion Rates, Washington State Residents, 1978-1988 18
Figure 16 Abortion Ratios by Age Group, Washington State Residents, 1985-1988 18
Figure 17 Abortion & Fertility Rates for Washington State Counties 1988, Ranked in Order by Abortion Ratio 19
Figure 18 Abortion & Fertility Rates, Women 15-17, for Washington State Counties 1988, Ranked in Order by Pregnancy Rate 20
Figure 19 Repeat Abortions, Percentages by Patient Age Group, Washington State Residents 1988 21
Figure 20 Repeat Abortion Rates for Women 15-19 and 20-24 Years of Age, Washington State Residents, 1981-1988 21
Figure 21 Abortion Facilities, Washington State, 1982-1988 22
Figure 22 Map Showing Access to Non-hospital Abortion Services for Counties with ≥10,000 Women Aged 15-44 22

Tables 23

Summary Table:
Numbers with Rates for Live Births, Deaths, Deaths of Infants Under One Year of Age, Maternal Deaths, and Fetal Deaths, Washington State, 1920-1988 24

Natality 27

Table 1 Births in Washington State by Selected Topics, 1988 28
1A Residents, Sex by Race

1B Residents, Mother's Age Group by Sex
1C Residents, Attendant at Birth
1D Residents, Order of Birth to Mother
1E Residents, Maternal Smoking
1F Residents, Multiple Live Births
1G Residence and Occurrence, Sex by Birth Weight in Grams
1H Residence and Occurrence, Live Births and Fetal Deaths by Month
1I Occurrence, Method of Delivery
1J Occurrence, Type of Place

Table 2 Live Births by Race by Birth Weight, Washington State Residents 1988 31

Table 3 Live Births by Mother's Age by Birth Weight, Washington State Residents 1988 . . 31

Table 4 Live Births by Mother's Age by Month Prenatal Care Began Washington State Residents 1988 32

Table 5 Live Births by Number of Prenatal Visits by Month Care Began, Washington State Residents 1988 32

Table 6 Live Births with Rates by Place of Residence by Sex and Place of Occurrence, Washington State 1988 33

Table 7 Live Births Intercounty Travel Patterns, Residence and Occurrence Washington State 1988 34

Table 8 Live Births by Child's Race by Place of Residence, Washington State 1988 36

Table 9 Live Births by Mother's Age Group by Place of Residence Washington State 1988 37

Table 10 Live Births by Month by Place of Residence Washington State 1988 38

Table 11 Live Births by Birth Weight in Grams by Place of Residence Washington State 1988 39

Table 12 Multiple Births by Number Born Alive Each Set by Place of Residence Washington State 1988 40

Table 13 Live Births with Malformations with Percent of Total Births by Place of Residence, Washington State 1988 41

Table 14 Live Births with Maternal Smoking by Mother's Place of Residence Washington State 1988 42

Table 15 Live Births to Single Mothers by Place of Residence by Age of Mother Washington State 1988 43

Table 16 Live Births by Institutions by Place of Occurrence Washington State 1988 44

Mortality 45

Table 1 Deaths in Washington State by Selected Topics, 1988 46
1A Residents, Sex and Race
1B Residents, Infant Deaths by Race
1C Residents, Age Group by Sex
1D Residents, Life Expectancy by Age Group
1E Residents, Leading Causes of Death
1F Residence and Occurrence, Month of Death
1G Residents, Marital Status by Sex
1H Occurrence, Type of Place

Table 2 Deaths with Rates and Percent by Age Group and Sex by Leading Causes, Washington State Residents 1988 48

Table 3 Deaths with Rates by Selected Causes by Sex, Washington State Residents 1988 50

Table 4 Deaths Due to Malignant Neoplasm by Primary Sight with Rates by Sex, Washington State Residents 1988 52

Table 5 Deaths by Non-Transport Causes by Place of Accident, Washington State Residents 1988 53

Table 6 Deaths with Rates by Place of Residence and Occurrence, Washington State 1988 54

Table 7 Deaths by Sex and Race by Place of Residence, Washington State 1988 55

Table 8 Deaths by Age Group by Place of Residence, Washington State 1988 56

Table 9 Deaths by Month of Occurrence by Place of Residence, Washington State 1988 57

Table 10 Deaths with Rates by Selected Disease Conditions by Place of Residence, Washington State 1988
Infectious and Parasitic Diseases, Diabetes Mellitus, Alcoholism, Diseases of the Heart, and Cerebrovascular Disease 58

Table 11 Deaths with Rates by Selected Disease Conditions by Place of Residence, Washington State 1988
General Arteriosclerosis, Influenza and Pneumonia, Chronic Obstructive Pulmonary Diseases, Cirrhosis of the Liver, and Nephritis, Nephrotic Syndrome, Nephrosis 59

Table 12 Deaths Due to Malignant Neoplasm by Primary Site with Rates by Place of Residence, Washington State 1988 60

Table 13 Deaths Due to Human Immunodeficiency Virus with Rates by Place of Residence, Washington State 1988 62

Table 14 Deaths with Rates by External Causes by Place of Residence, Washington State 1988
Motor Vehicle, Falls, Drownings, Fires, All Other Accidents 63

Table 15 Deaths with Rates by External Causes by Place of Residence, Washington State 1988
Suicide, Homicide, Undetermined External Injuries 64

Table 16 Deaths by Month by Selected Causes, Washington State Occurrences 1988 65

Table 17 Deaths Due to Human Immunodeficiency Virus with Rates by Place of Occurrence, Washington State 1988 66

Table 18 Deaths by External Causes with Rates by Place of Occurrence, Washington State 1988
Motor Vehicle, Falls, Drownings, Fires, All Other Accidents 67

Table 19 Deaths by External Causes with Rates by Place of Occurrence, Washington State 1988
Suicide, Homicide, Undetermined External Injuries 68

Table 20 Deaths by Type of Place by Place of Occurrence, Washington State 1988 69

Table 21 Infant Mortality by Age and Sex by Cause, Washington State Residents 1988 70

Table 22 Matched Infant Deaths by Race at Birth by Place of Residence, Washington State 1988 71

Table 23 Infant Mortality by Leading Causes by Place of Residence, Washington State 1988 72

Table 24 Matched Infant Deaths by Mother's Age Group by Place of Residence, Washington State 1988 73

Table 25 Fetal, Perinatal, Neonatal and Infant Mortality by Place of Residence, Washington State 1988 74

Table 26 Fetal, Perinatal, Neonatal and Infant Mortality by Place of Occurrence, Washington State 1988 75

Table 27 Fetal Mortality by Sex and Weight, Washington State Residents 1988 76

Table 28 Fetal Mortality by Cause, Washington State Residents 1988 77

Table 29 Fetal Deaths by Mother's Age Group by Place of Residence, Washington State 1988 78

Induced Terminations of Pregnancy 79

Table 1 Induced Terminations of Pregnancy by Selected Topics 1988 80
1A Residents, Age Group of Patient
1B Residence, Gestational Age
1C Residents, Number of Previous Abortions
1D Residents, Number of Previous Live Births
1E Residents, Number of Previous Pregnancies
1F Residents, Race and Hispanic Origin
1G Residence and Occurrence, Travel Patterns
1H Occurrence, Operative Procedure
1I Occurrence, State or Country of Residence
1J Occurrence, Type of Complication
1K Occurrence, Type of Facility

Table 2 Induced Abortions, Live Births, and Abortion Ratio with Percent Changes, Washington State Residents, 1974-1988 82

Table 3 Reported Pregnancy Outcomes with Percents by Age of Patient, Washington State Residents 1988 83

Table 4 Age Group Specific Fertility Rate, Abortion Rate, and Abortion Ratio, Washington State Residents 1988 83

Table 5 Previous Live Births by Age of Patient, Washington State Residents 1988 84

Table 6 Previous Induced Abortions by Age of Patient, Washington State Residents 1988 84

Table 7 Induced Abortions by Age of Patient by Gestation of Pregnancy, Washington State Residents 1988 84

Table 8 Induced Abortions by Type of Procedure by Gestation of Pregnancy, Washington State Occurrences 1988 85

Table 9 Induced Abortions with Complications by Type of Procedure by Gestation of Pregnancy, Washington State Occurrences 1988 85

Table 10 Induced Abortions with Complications by Type by Gestation of Pregnancy, Washington State Occurrences 1988 85

Table 11 Abortion Inter-County Travel Patterns, Washington State Residence and Occurrences 1988 86

Table 12 Live Births and Abortions, with Rate and Ratio Indicators by Patient's Place of Residence, Washington State 1988 88

Table 13 Induced Abortions by Age of Patient by County of Residence, Washington State 1988 89

Table 14 Second Trimester Abortions by Patient's Age Group by County of Residence, Washington State 1988 90

Table 15 Repeat Abortions by Patient's Age Group by County of Residence, Washington State 1988 91

Table 16 Pregnancy Outcome with Rates by Selected Patient Age Groups by Place of Residence, Washington State 1988 92

Table 17 Resident Abortion Rates with Ranks for Washington State Counties, 1984-1988 93

Marriages and Dissolutions 95

Table 1 Marriages by County of Marriage by Bride and Groom Age Group, Washington State Occurrences 1988 96

Table 2 Dissolutions, Annulments, and Separate Maintenance by County of Decree, Washington State Occurrences 1988 97

Table 3 Dissolutions by County of Divorce by Husband's and Wife's Age Group, Washington State Occurrences 1988 98

Table 4 Dissolutions by Total Living Children by Place of Wife's Residence, Washington State Occurrences 1988 99

Appendix 101

A Definitions 102

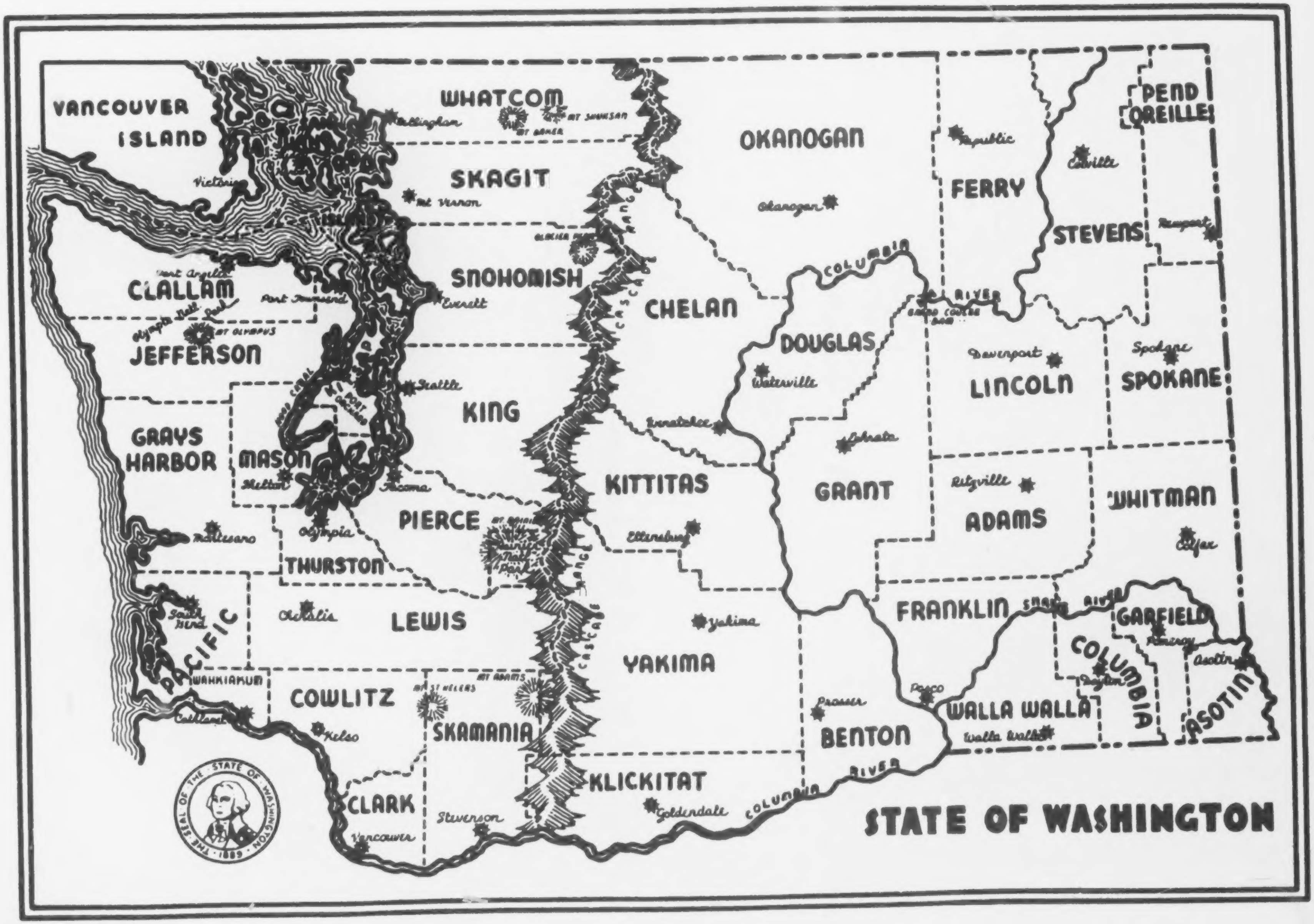
B Technical Notes 105

C Conversion of Birth Weight Groups in Grams to Pounds and Ounces 107

D Population of the State of Washington by Age Group, by Sex, April 1, 1988 108

E Population, State of Washington, Counties, and Cities of 10,000 Population and Over, April 1, 1988 109

F Reporting Forms 110


VANCOUVER ISLAND
Victoria
WHATCOM
Bellingham
MT BAKER
MT SHUKSAN
SKAGIT
Mt Vernon
SNOHOMISH
Everett
GLACIER PK
CLALLAM
Port Angeles
Port Townsend
Olympic Natl Park
MT OLYMPUS
JEFFERSON
GRAYS HARBOR
Montesano
MASON
Shelton
HOOD CANAL
KITSAP
PORT ORCHARD
KING
Seattle
PIERCE
Tacoma
MT RAINIER
Natl Park
THURSTON
Olympia
LEWIS
Chehalis
PACIFIC
South Bend
WAHKIAKUM
Cathlamet
COWLITZ
Kelso
MT ST HELENS
MT ADAMS
SKAMANIA
Stevenson
CLARK
Vancouver
CASCADE RANGE
CHELAN
Wenatchee
OKANOGAN
Okanogan
DOUGLAS
Waterville
KITTITAS
Ellensburg
YAKIMA
Yakima
KLICKITAT
Goldendale
FERRY
Republic
STEVENS
Colville
PEND OREILLE
Newport
COLUMBIA RIVER
GRAND COULEE DAM
LINCOLN
Davenport
SPOKANE
Spokane
GRANT
Ephrata
ADAMS
Ritzville
WHITMAN
Colfax
FRANKLIN
Pasco
SNAKE RIVER
GARFIELD
Pomeroy
COLUMBIA
Dayton
ASOTIN
Asotin
WALLA WALLA
Walla Walla
BENTON
Prosser
COLUMBIA RIVER
THE SEAL OF THE STATE OF WASHINGTON 1889

STATE OF WASHINGTON

TRENDS

Natality
Mortality
Infant Mortality
Fetal Mortality

Introduction:

The birth, death, infant and fetal death analysis section has two parts for each data source. The first part (*1988 At A Glance)* puts 1988 vital events into perspective by comparing them to US data and presenting time trends for Washington State The second part *(Is Washington State Meeting 1990 Goals?*) examines whether or not Washington State will meet the Surgeon General's 1990 goals. These goals have been established as targets to guide health promotion and disease prevention programs in their efforts to improve the health of the American people by the year 1990. Tracking progress towards these goals helps to identify areas where the state is doing comparatively well and problem areas where special efforts may be needed.

Methods:

Trends are determined by comparing 1988 to the previous five years, thus they represent recent trends only. Long-term trends in rates are shown on the accompanying graphs.

Projected 1990 Washington State rates are determined by assuming that current trends will continue to 1990. Because this is a rough approximation, projected data are given in whole numbers only, to reflect their uncertainty.

Sources of Data:

Washington State data are based on 1988 Washington State resident events, except where two or three years are combined to provide more stability in rates. These cases are noted on the tables.

US figures are based on data reported in the National Center for Health Statistics (NCHS) *Monthly Vital Statistics Reports* (USDHHS, Public Health Service, Hyattsville, Maryland). Data are the most recently available; data years used are noted on the tables.

1990 goals are given in the NCHS publication, *Health: United States, 1986.* (DHHS Publication No. PHS 87-1232. Public Health Service, Washington, US Government Printing Office, December, 1986).

Natality - 1988 At A Glance

Washington State 1988

Item	Data	Trend[1]	Comparable US Data[2]
Number of Births	72,471	+	
Birth Rate (per 1,000 population)	15.9	-	15.9
Fertility Rate (per 1,000 women aged 15-44	67.1	N	67.3
Low Birth Weight Births (2,500 grams or less)	5.3%	+	6.9%
Births to Unwed Mothers	22.3%	+	24.5%
Plural Births	2.2%	+	2.2%
First Child	40.9%	N	41.3%
Deliveries by Unlicensed Attendant	0.4%	-	0.6%
Births at Home	1.8%	N	0.9%

[1] - = decreasing, + = increasing, N = no change.

[2] Birth and fertility rates are for 1988; other US Data are for 1987.

BIRTH RATES (per 1,000 population)
WASHINGTON STATE, 1915-1988

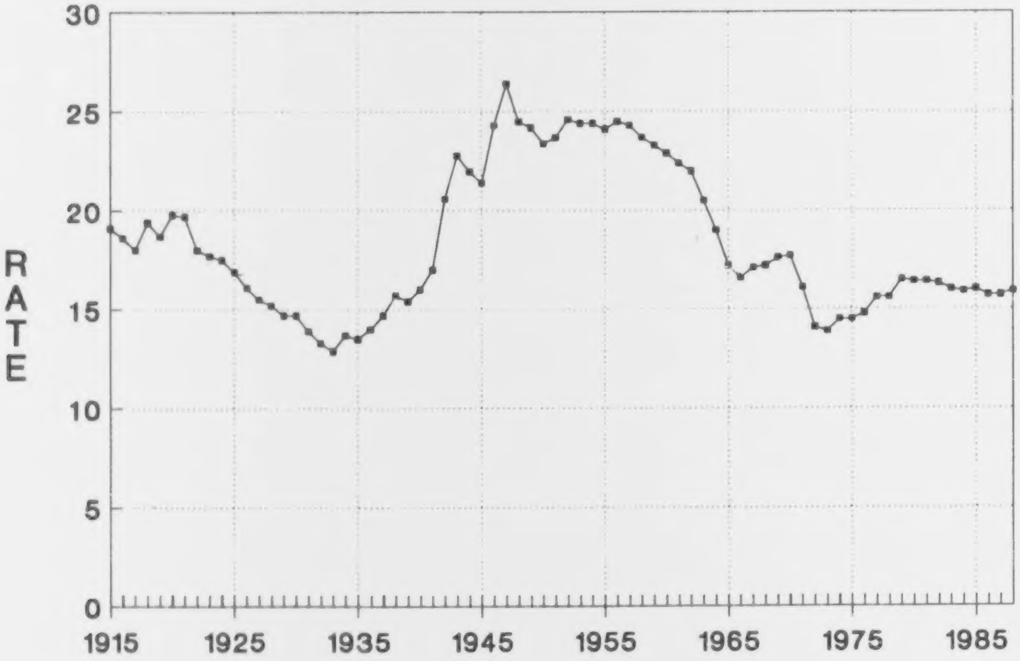


Figure 1

Is Washington State Meeting 1990 Goals?

1990 Goals, Washington State and US Compared

	Washington State		United States	
	Current[1]	Projected 1990	Current[2]	1990 Goal
Family Planning				
Teen Birth Rate (per 1,000 girls in each age group)				
15 year olds	9.9	10	13.7	10
16 year olds	23.7	23	29.7	25
17 year olds	44.3	44	50.6	45
Infant and Maternal Health				
Percent Low Birth Weight (2,500 grams or less)				
All Births	5.3	5	6.9	5
White	4.8	5	5.7	9
Black	10.8	11	12.7	9
Native American	7.7	7	6.1	9
Other	5.7	6	6.4	9
Maternal Mortality Rate (per 100,000 births)				
All Births	6.1	4	6.6	5
White	5.7	4	5.1	5
Black	14.3	9	14.2	5
Improved Services				
Percent Beginning Prenatal Care after 1st Trimester				
All Births	22.9	23	23.5	10
White	21.1	21	20.6	10
Black	36.4	36	38.9	10
Native American	41.0	39	40.0	10

[1] Maternal mortality data are for 1985-1988; all other data are for 1988.

[2] Teen data are for 1985; American Indian data are for 1986; other US data are for 1987.

Areas of Concern

- Increase in birth rates for 15-year olds (although goals will probably still be met.
- Possible increase in proportion of low birth weight infants (although goals will still be met for all but Blacks).
- High maternal mortality rates for Blacks.
- High levels of late care, especially for Non-Whites.

Mortality - 1988 At A Glance

Washington State 1988

Item	Data	Trend[2]	Comparable US Data3
Number of Deaths	36,299	+	
Death Rate (deaths per 1,000 population)	8.0	+	8.8
Five Leading Cause[1] Death Rates (deaths per 100,000 population)			
Diseases of the Heart	256.4	-	312.7
Malignant Neoplasms	183.9	+	197.8
Cerebrovascular Disease	61.8	N	60.9
Chronic Obstructive Pulmonary Disease	40.8	+	33.5
All Accidents	37.5	-	38.7

[1] Mortality Table 1 gives International List Numbers (ICD-9 codes) for these causes.

[2] - = decreasing, + = increasing, N = no change.

[3] Rates by cause are provisional, based on a ten percent sample.

DEATH RATES (per 1,000 population)
WASHINGTON STATE, 1915-1988

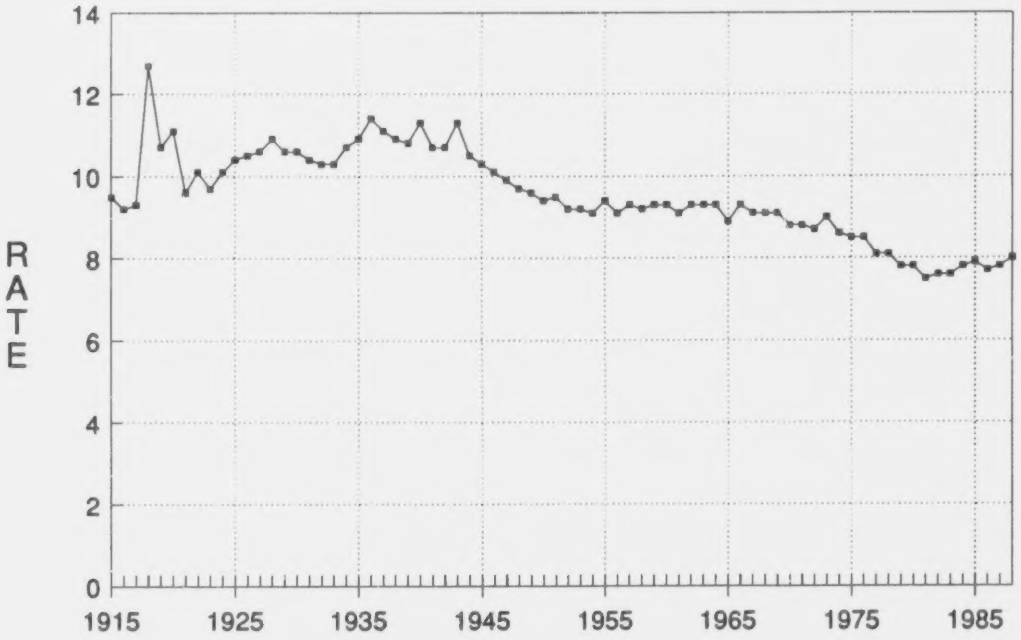


Figure 2

Is Washington State Meeting 1990 Goals?

1990 Goals, Washington State and US Death Rates[1] Compared

	Washington State		United States	
	Current[2]	Projected 1990	Current[3]	1990 Goal
General Health				
Ages 1-14	33.7	32	33.3	34.0
15-24	97.4	95	102.1	92.0
25-64	344.9	340	423.2	400.0
Injury Prevention				
Motor Vehicle Accidents	19.4	19	19.6	18.0
Children under 15	7.6	7	6.9	5.5
Home Accidents				
Children under 15	5.5	5	4.8	5.0
Falls	5.0	5	5.0	2.0
Drowning	2.4	2	1.8	1.5
Stress and Violent Behavior				
Suicide: Ages 15-24	18.1	18	12.9	11.0
Male	28.6	29	19.9	11.0
Female	6.8	6	5.1	11.0
Alcohol Abuse				
Cirrhosis of the Liver	9.8	10	10.6	12.0
White	9.9	10	10.4	12.0
African American	9.5	11	13.2	12.0
Native American	29.7	28	Not Available	12.0

[1] Rates based on deaths/100,000 population in group.

[2] Data Years: Ages 15-64, falls, drowning (1988); all others (1987-88).

[3] Data Years: Home accidents, falls, drowning, sex-specific suicide rates (1985); age-specific death rates, motor vehicle accidents for children under 15, race-specific cirrhosis rates, total suicides (1987); all others (1988).

Areas of Concern

- High death rates for motor vehicle accidents, falls, and drownings.
- High suicide rates for the 15-24 age group, especially for males
- High Native American cirrhosis death rates.

Infant Mortality - 1988 At A Glance

Washington State 1988

Item	Data	Trend[2]	Comparable US Data3
Number of Infant Deaths	652	-	
Infant Death Rate (deaths per 1,000 live births)			
All Infant Deaths	9.0	-	10.0
Neonatal (0-27 days)	5.2	-	6.4
Postneonatal (28 days - 1 year)	4.4	N	3.6

Leading Cause[1] Death Rates (deaths per 100,000 population)

Certain Causes of Mortality in Early Infancy	207.6	-	360.0
Sudden Infant Death Syndrome (SIDS)	255.9	N	125.4
Congenital Anomalies	200.5	-	201.5
Birth Injury and Anoxia	112.3	-	104.6

[1] Mortality Table 12 gives International List Numbers (ICD-9 codes) for these causes.

[2] - = decreasing, + = increasing, N = no change.

[3] Rates by cause are provisional, based on a ten percent sample.

INFANT DEATH RATES
(per 1,000 live births)
WASHINGTON STATE, 1915-1988

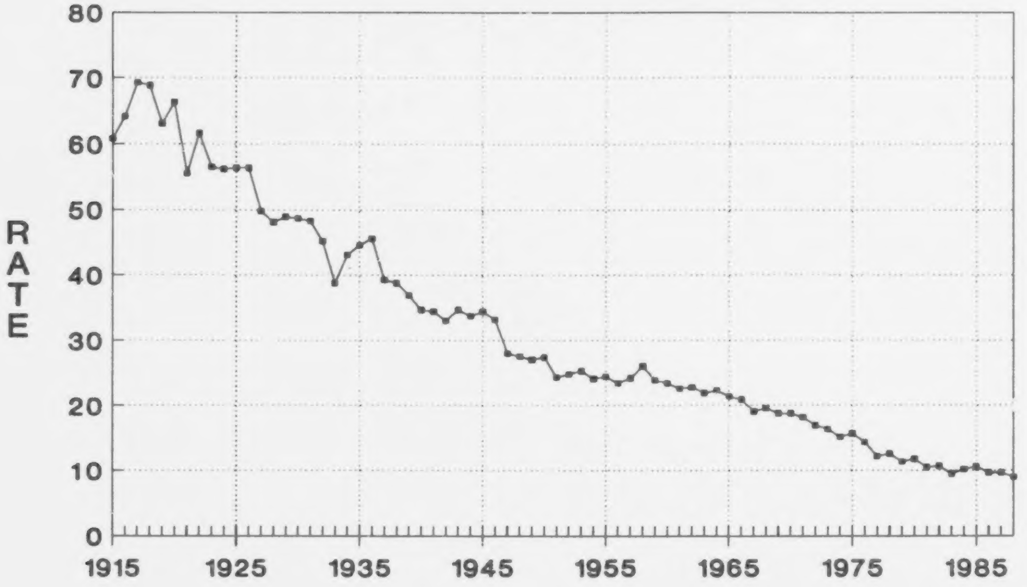


Figure 3

Is Washington State Meeting 1990 Goals?

1990 Goals, Washington State and US Infant Death Rates Compared

	Washington State		United States	
	Current[1]	Projected 1990	Current[2]	1990 Goal
All Infant Deaths	9.0	10	10.0	9.0
Neonatal Deaths	4.6	5	6.4	6.5
Postneonatal Deaths	4.4	5	3.6	2.5
Racial Groups				
White	9.2	10	8.6	12.0
Black	15.9	15	17.9	12.0
Native American	13.0	12	9.5	12.0

[1] Race-specific mortality rates are for 1987-88; other data are for 1988.

[2] White and Black mortality rates are for 1987; Indian rates are for 1985; other US figures are for 1988.

Areas of Concern

- High postneonatal death rates. This is a major concern. Washington State has the sixth highest postneonatal mortality rate in the nation. Much of the postneonatal mortality is due to SuddenInfant DeathSyndrome (SIDS); Washington State's SIDS death rates are considerably higher than US rates (see previous page).
- High Black infant mortality rates.

Fetal Mortality - 1988 At A Glance

Washington State 1988

Item	Data	Trend[1]	Comparable US Data2
Number of Fetal Deaths	381	-	
Fetal Death Ratio (deaths per 1,000 live births)	5.3	-	7.3

[1] - = decreasing, + = increasing, N = nochange.

[2] US figure estimated from earlier data.

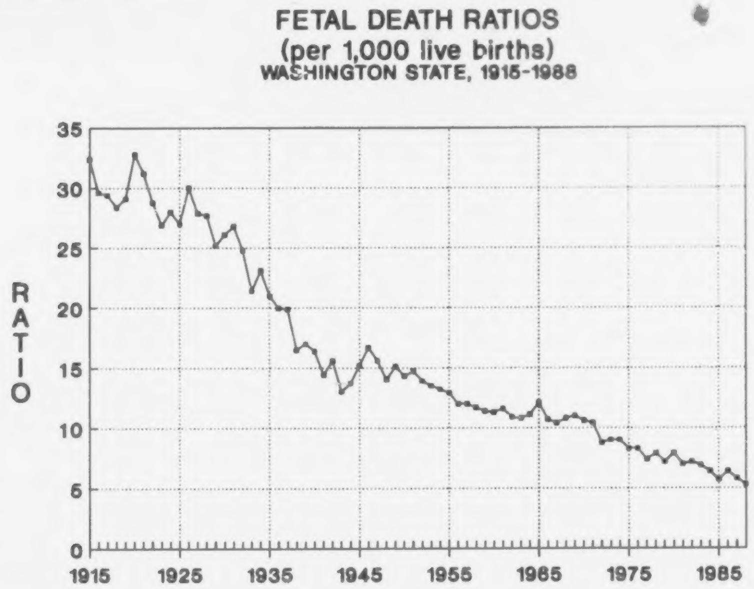


Figure 4

Is Washington State Meeting 1990 Goals?

1990 Goals, Washington State and US Fetal Death Rates Compared

	Washington State		United States	
	Current[1]	Projected 1990	Current	1990 Goal
Perinatal Death Rate[2] (deaths per 1,000 live birth)	7.6	8	10.8	5.5

[1] Data are for 1987-88.

[2] Perinatal deaths include late fetal deaths (28+ weeks) plus early neonatal deaths (less than 7 days). Rates published elsewhere in this report include fetal deaths of 20+ weeks gestation.

Areas of Concern

- Perinatal mortality rates above the goal. The goal appears to be lower than the neonatal goal alone and may thus be unrealistic.

Induced Terminations of Pregnancy

Introduction

Abortion surveillance has been conducted by State public health officials since December, 1970. Induced abortion had become a legally allowable procedure in Washington State the previous month, when the then existing criminal abortion statute was overturned by referendum. The new law, which had some restrictions, was later superceded by United States Supreme Court decision in Roe v. Wade (1973).

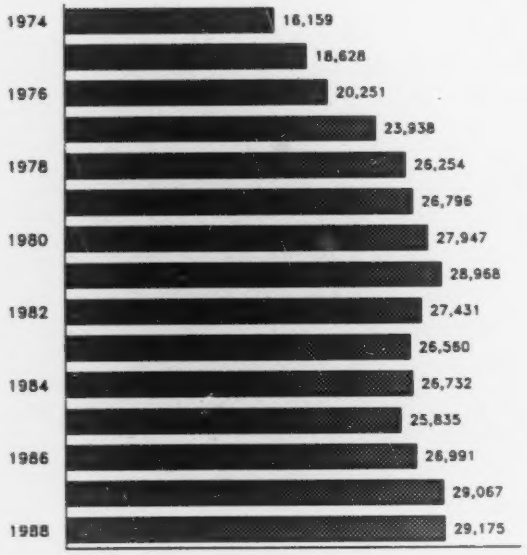
Initially, the purpose of the abortion reporting system was to evaluate the safety and adequacy of procedures. The data are also important for assessment in two other areas of public health concern: 1) prevention of unwanted pregnancies and 2) access to abortion services. Trends pertinent to each of these issues are illustrated in graphs and by map on this and the following pages. In addition, both state and county data are arrayed in the Induced Terminations of Pregnancy chapter of the tables section.

All the usual problems of data collection—underreporting, incompleteness, and inaccuracy—impose qualifications on any conclusions. See the Technical Notes, Appendices A and B, in this report for more detail on reporting problems and definitional issues.

Overview

The reported total for Washington State resident abortions increased slightly in 1988—from 29,067 to 29,175 (0.4%) while abortion occurrences decreased from 30,172 to 29,802 (-1.2%). This decrease may be due in part to a reporting artifact.

Total of Induced Abortions per Year
Washington State Residents, 1974–1988*



*Resident abortion totals for the years 1974–1977 are estimates based on the total occurring in those years.

Figure 5

Total of Induced Abortions per Year
Washington State Occurrences, 1974–1988

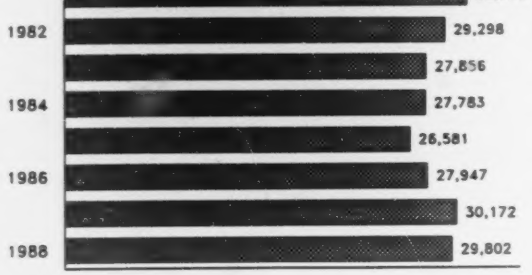


Figure 6

There were absolute and proportionate differences among all age groups, exept 35-39 year old occurrences. In general, change was slight.

The greatest negative proportional change within any one age group for induced terminations occurring in the State was to those under 15 (-12%). The data reveals an increase among abortion occurrences in the age groups, 25-29 (+2%) and 45 and over (+64%). The greatest positive difference in raw figures was among 25-29 year-olds (+115); negative, 20-24 year olds (-199).

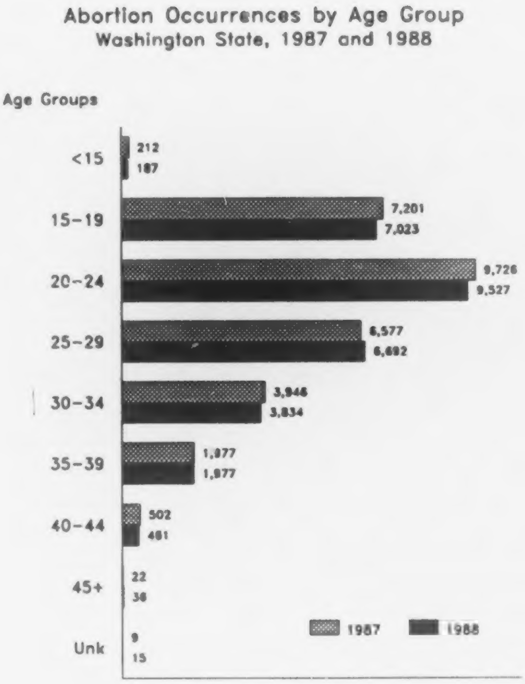


Figure 7

As with occurrences, there was little change in residence totals among age groups. The greatest percentage gain was again among those over 45 years old (+67%) and the greatest absolute difference was in the 25-29 age group (+195).Three age groups exhibited decline; the greatest proportionately was for those under 15 (-9%). The largest decrease in actual counts was among 20-24 year-olds (-60).

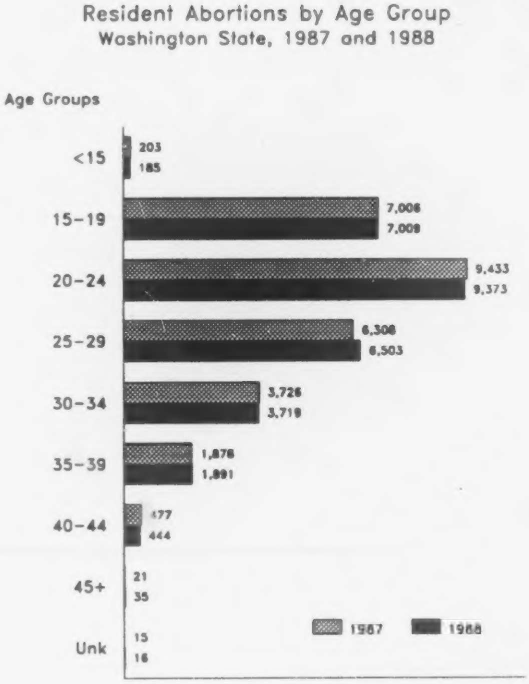
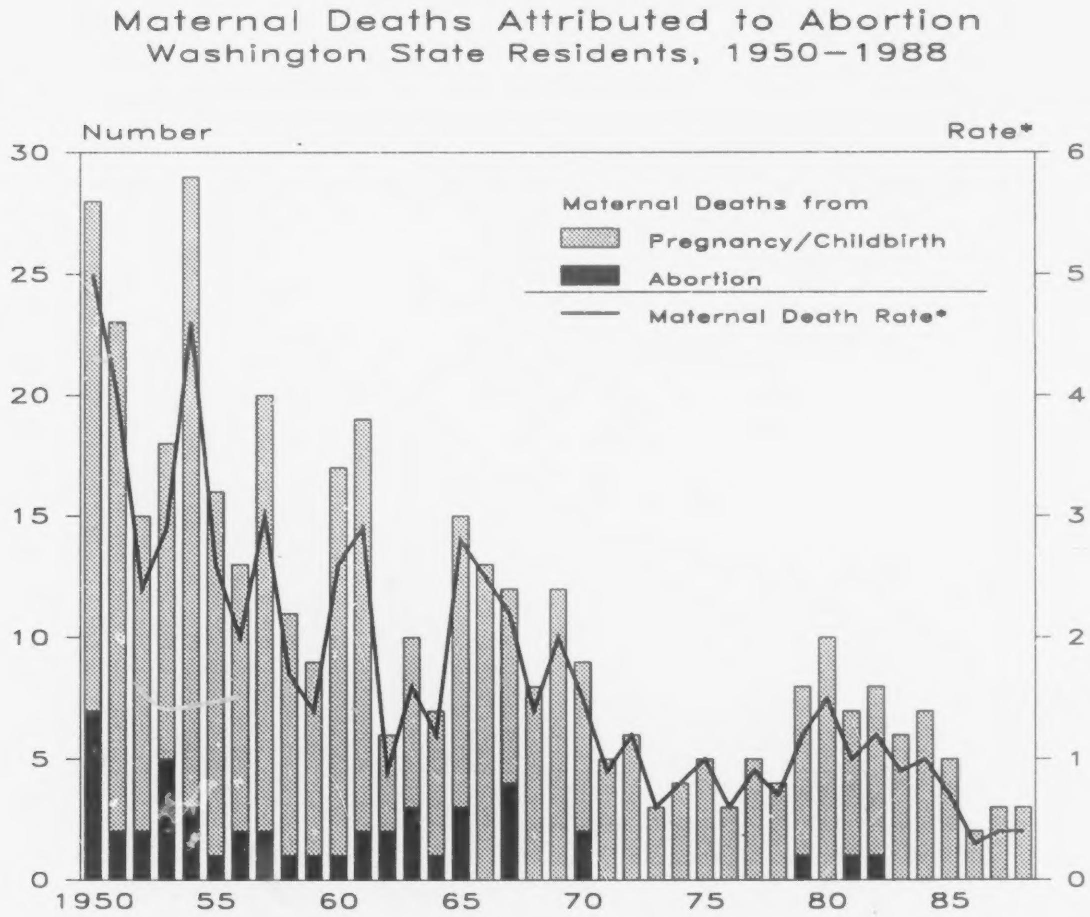


Figure 8

Mortality



*Maternal Death Rate=Deaths due to maternal causes per 10,000 live births.

Figure 9

Trends in abortion related mortality, show that abortion has been nearly eliminated as a contributing factor in maternal deaths. Maternal deaths are deaths to women which are a result of complications of pregnancy or occur within six weeks of either live birth or abortive outcome. The maternal death rate is equal to the number of these deaths per 10,000 live births.

The data illustrated in the chart above do not differentiate between legal and illegal abortions. The two deaths in 1970 took place prior to the passage of the referendum in that year. The three deaths which occurred in the years following 1970 were the result of complications—one each, from: a legally induced abortion procedure (performed as a consequence of IUFD, intrauterine fetal demise) in 1979, a self-induced abortion in 1981, and a spontaneous abortion in 1982.

Nationally, the death-to-case rate, that is the number of deaths per 100,000 legally induced abortions, was 0.8 in 1983, 0.8 in 1984, and provisionally 0.5 in 1985.*

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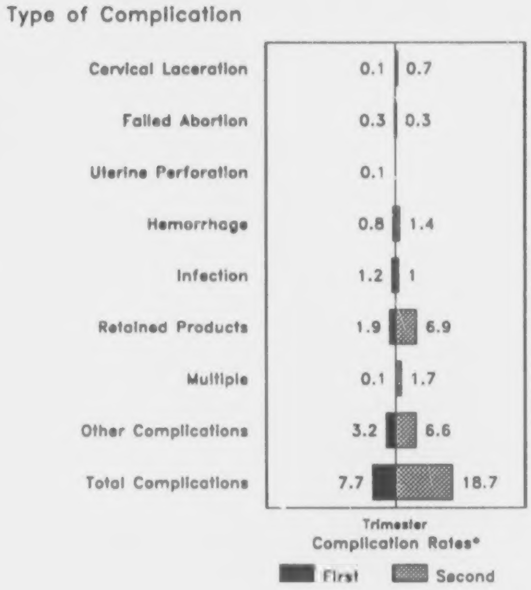
*United States Department of Health and Human Services, Centers for Disease Control, Center for Chronic Disease, Prevention, and Health Promotion, Division of Reproductive Health, *Abortion Statistics, U.S. 1984-1985 (Pre-release to State Health Agencies, 1989)*. Atlanta, GA: 1989.

Morbidity

Typically, second trimester abortions have a higher complication rate than first trimester terminations. It should be noted that the division between first and second trimester is somewhat arbitrary at twelve weeks and complications are not always completely reported for either semester. (See Technical Notes, Appendix B, in this report.)

Retained products was the most frequently reported complication in both trimesters in 1988. Some of the other complications, e.g. infection, may be artificially low due to the completion of reporting forms before some complications are known.

Complication Rates by Type and Trimester
Washington State Occurrences, 1988



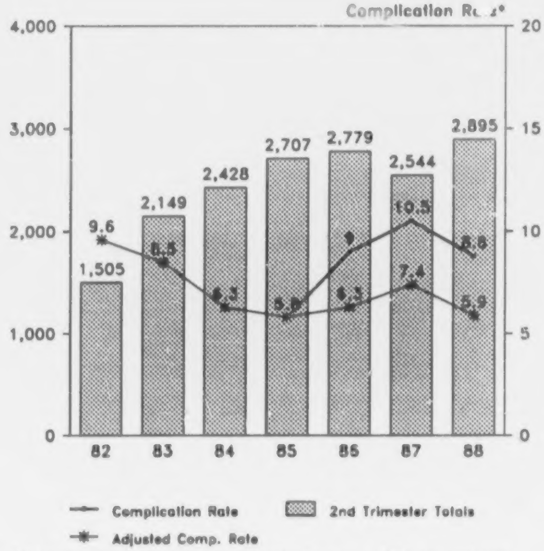
*Complication Rate=Complications per 1,000 procedures.

Figure 10

In December, 1982 the abortion law was liberalized to allow second trimester procedures in approved nonhospital facilities. This factor and improved reporting may account for some of the rise in second trimester abortions that has occurred since 1983. In 1988, the number of second trimester procedures was the highest since 1982.

The complication rate shown as the upper line in Figure 7 includes 85 cases of minor complications (such as "unexplained pain" and "hemorrhage less than 500cc") reported under "other complications." These minor complications form 82% of the "other complications" category. Prior to 1986, such complications were suppressed before publication. This accounts for most of the increase in the complication rates. See the adjusted complication rate in the accompanying figure.

Complication Rates and
Second Trimester Procedures
Washington State Occurrences, 1982–1988



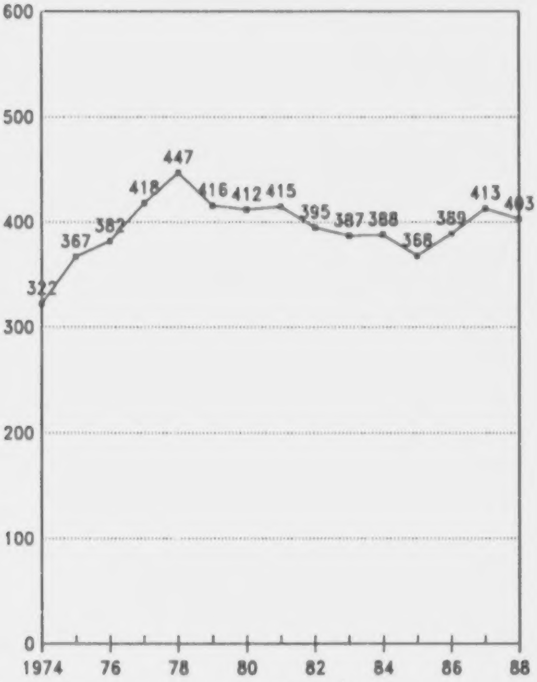
*Complication Rate = Complications per 1,000 procedures (includes both trimesters)

Figure 11

Rates and Ratios

Pregnancy, abortion, and fertility rates and the abortion ratio are statistical indicators frequently used to assess need and efficacy of programs for the prevention of unwanted pregnancy. In 1988, the abortion rate (abortions per 1,000 women aged 15-44) for Washington State residents remained at the same level as the previous year. The peak year since 1974 for pregnancy and fertility rates is 1981; for the abortion rate, 1978. For the abortion ratio, the peak year is 1977.

Abortion Ratio* by Year
Washington State Residents, 1974–1988

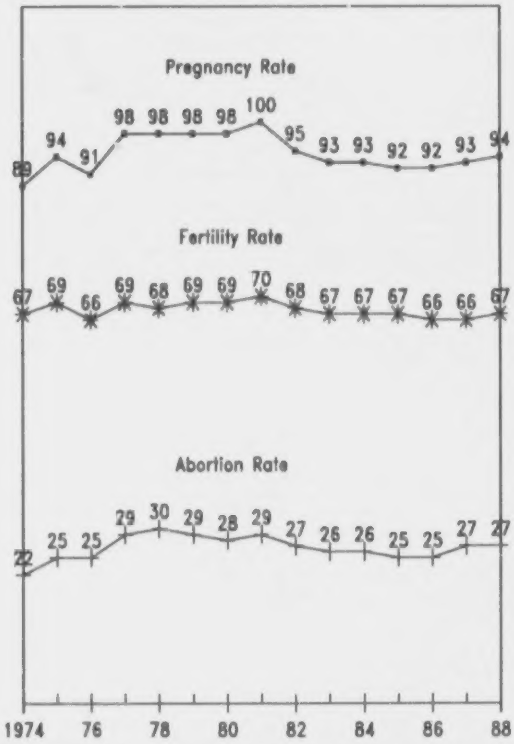


*Abortion Ratio = Abortions per 1,000 Live births

Figure 12

Abortion rates can be affected by either or both a change in the number of women getting pregnant (expressed mathematically by the pregnancy rate) or by the number of pregnant women choosing abortion (expressed indirectly by abortion ratios). In 1988, a 1-point rise in the pregnancy rate was offset by a slight decrease in the abortion ratio (-2.4%). Neither was enough to effect change in the abortion rate which remained constant. Instead, the change in the pregnancy rate was duplicated in the fertility rate which also increased by one point.

Comparative Rates* By Year
Washington State Residents, 1974–1988



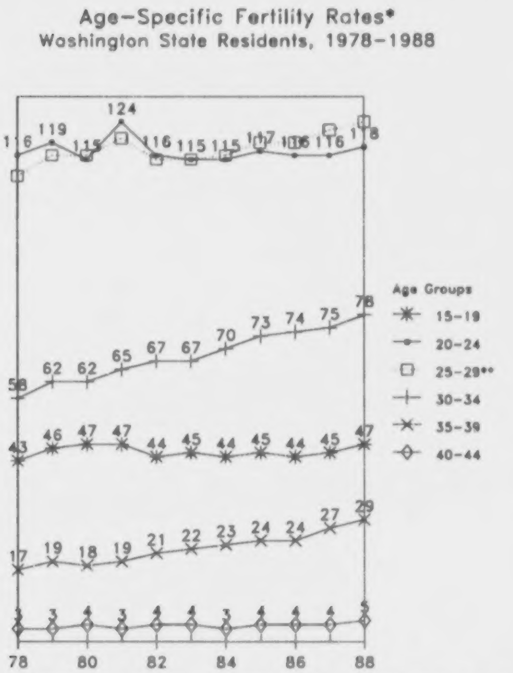
*Rates = Pregnancies, Live births, and Abortions per 1,000 women aged 15–44

Figure 13

Since 1978, the greatest change within individual age groups has been in fertility rates among 35-39 year-olds and 30-34 year-olds (+71% and +34%, respectively). In the same ten years, the 15-19 year-olds were the only age group to show a decline in either rate, exhibiting a twelve percent decrease in their abortion rate. The fertility rate for this age group is at its highest point since 1981.

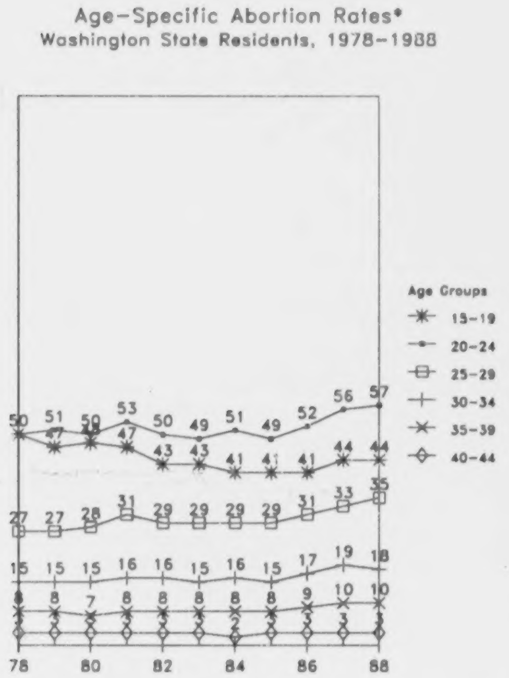
An examination of abortion ratios by age group over the past three years shows little change in all but the older and youngest age groups.

These trends are illustrated in the charts on the following page.



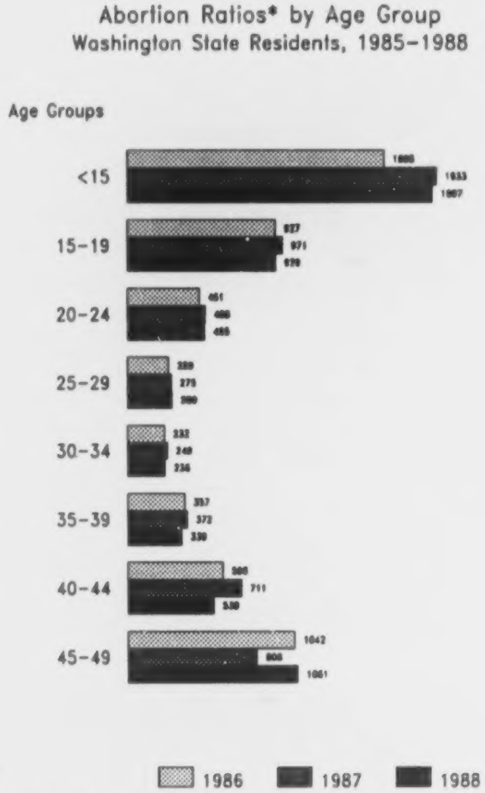
*Fertility Rate = Live births per 1,000 women in each age group
**Values not shown.

Figure 14



*Abortion Rate = Abortions per 1,000 women in each age group

Figure 15



*Abortion Ratio = Abortions per 1,000 Live births

Figure 16

The three age-specific charts on this page show the age-group differences in fertility and abortion rates and abortion ratios.

The figures on the next two pages illustrate the abortion and fertility rates by county for women aged 15-44 (Figure 17) and 15-17 (Figure 18). In addition, each chart shows the counties ranked by a third variable—abortion ratio* and pregnancy rate, respectively. These variables were chosen for ranking based on the prevention issues pertinent to each age group—unwanted pregnancy at all ages in Figure 17 and high school age pregnancy in Figure 18. (The highest levels for these variables are at the top of each chart.)

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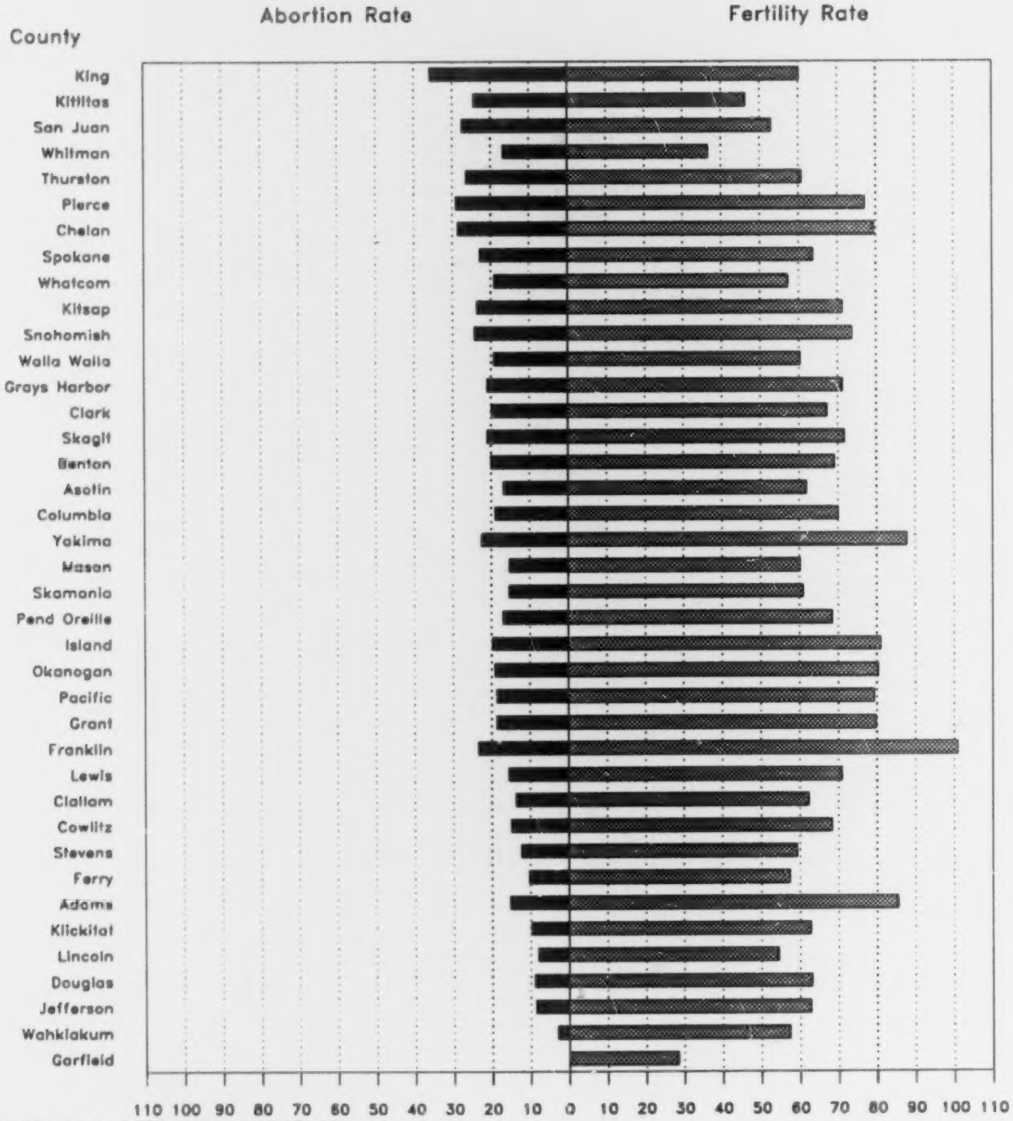
*It should be understood that abortion ratios are more mercurial than rates because they are based on smaller divisors—small differences in total events can make large differences in the ratios from year to year. Furthermore, differences can be compounded. If total pregnancies remain the same, an increase in live births automatically creates a decrease in abortions or vice versa; thereby, doubling the effect on an abortion ratio.

The figure below shows county abortion and fertility rates and ranking by abortion ratio.

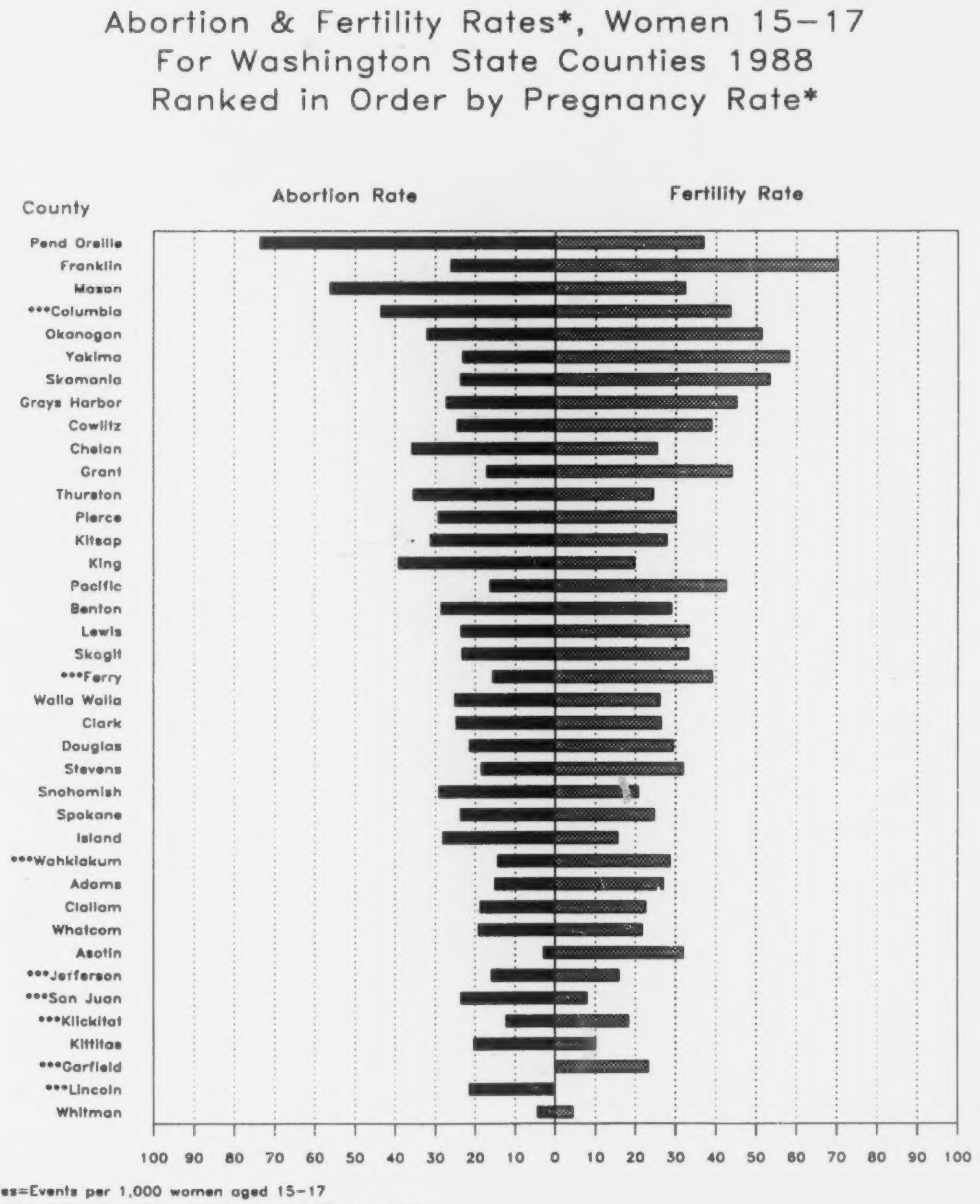
Abortion & Fertility Rates*
For Washington State Counties 1988
Ranked in Order by Abortion Ratio**



*Rates=Events per 1,000 women aged 15-44
**Ratio=Abortions per 1,000 live births, women aged 15-44

Figure 17

The chart on this page illustrates fertility and abortion rates for 15-17 year-olds in the 39 counties and ranks them by pregnancy rate for this age group. Some counties have very small populations of high-school-age women. For these counties, a small number of pregnancies in this age group often formulates a comparatively high rate which may vary considerably year to year. In these instances, data for several years should be examined. Eight counties (Columbia, Ferry, Garfield, Jefferson, Klickitat, Lincoln, San Juan, and Wahkiakum) had a total of ten or fewer pregnancies among high school age women.



Abortion & Fertility Rates*, Women 15–17
For Washington State Counties 1988
Ranked in Order by Pregnancy Rate*

*Rates=Events per 1,000 women aged 15-17
***Counties with 10 or fewer total reported HS pregnancies.

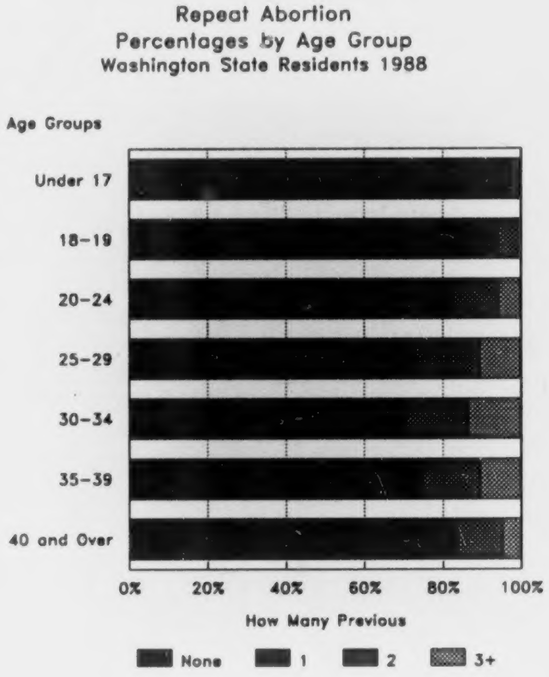
Figure 18

Repeat Abortion

Repeat abortion is the commonly used term for cases with a patient history of one or more previous induced termination. Besides failure to take precautions to prevent pregnancy, there are a myriad of possible reasons, for a history of a repeat abortion (or for obtaining any abortion, for that matter), e.g., contraceptive failure, fetal or maternal health problems, changes in economic, social, or psychological circumstances, incest, and/or rape.* No data is collected by the Washington State Abortion Reporting System on patients' use of contraceptives or reasons for choosing abortion.

Pregnancy history has been collected by the Abortion Reporting Form since 1981. Comparisons by age group should reflect an awareness of two countervailing factors at work in age-specific data on repeat abortion: 1)Older women are more at risk for repeat abortion because chances of a previous abortion is a function of age, and 2) Younger women are more at risk for repeat abortion because abortion has been legal for a longer portion of their lives.

Figure 19 portrays the percentage of previous induced terminations by age. Unknowns were not tabulated. They approximate six to nine percent in each age group.

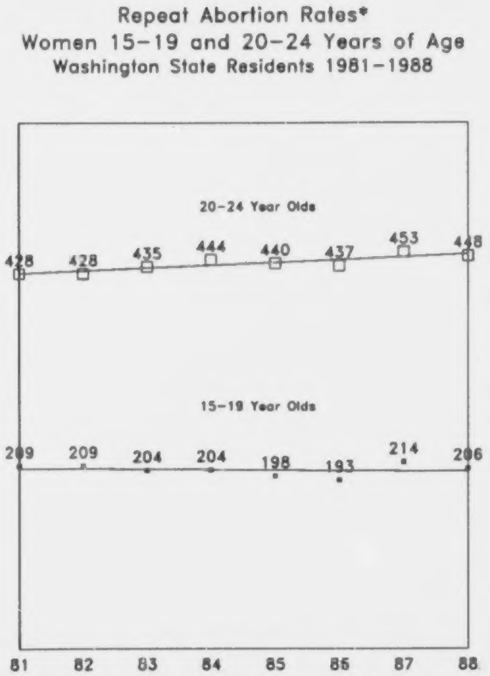


*Unknowns not tabulated

Figure 19

Figure 20 shows the trends in repeat abortion rates for women aged 15-19 and 20-24 since 1981. The trendline for the repeat abortion rate (repeat abortions per 1,000 procedures) for the younger age group has remained nearly flat. (Slope = -0.42; Corr = -0.15). For 20-24 year-olds, it shows a slight but moderately steady increase over the seven years. (Slope = +3.2; Corr = +0.87).

Repeat abortions by patient's age by county of residence are arrayed in the tables section of this report.



*Rate = Number of patients with history of previous abortion per 1,000 procedures, excluding unknowns

Figure 20

---

*See Aida Torres and Jacqueline Darroch Forrest. "Why Do Women Have Abortions?" *Family Planning Perspectives*, July/August 1988.

Access to Care

In the past five years, there has been a decline in abortion service providers. The total number of facilities dropped 18 in the seven years since 1982—one among those reporting fewer than 10 procedures; ten, between 10 and 49; and seven, 50 or more. Since there has not been a corresponding drop in the number of abortions provided, the effect of this decline has been an increased concentration of patient load among fewer providers.

The map below depicts abortion services for counties with populations of 10,000 or more women between the ages of 15 and 44. Nine of these larger counties (Benton, Chelan, Clallam, Cowlitz, Grays Harbor, Lewis, Walla Walla, and Whitman) have no non-hospital providers within their boundaries. Ninety-six percent of abortion patients obtained the procedure in a non-hospital setting.

A decline in health care providers is always a public health concern because of the increased potential for adverse effects on patient health. Thus, in addition, to the ongoing concern regarding safety of procedure, attention must remain focused on maintaining access to care, as well as, prevention of the conditions which necessitate that care—in this case, that is—unwanted pregnancy.

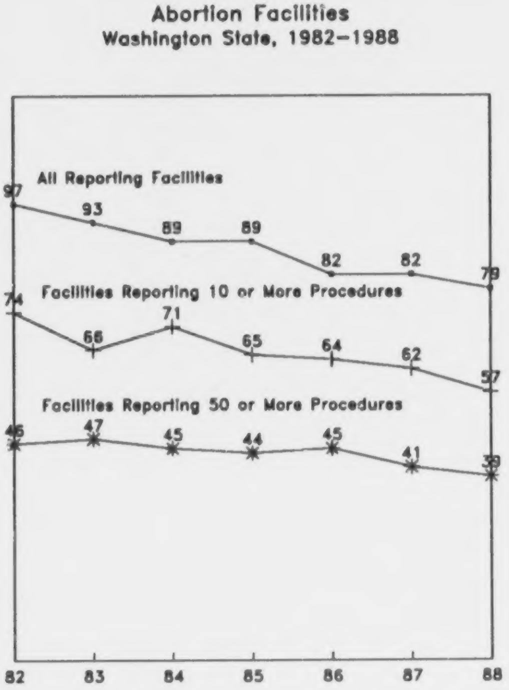


Figure 21

Access to Non-hospital Abortion Services, Washington State 1988
Counties with 10,000 or More Women Aged 15-44

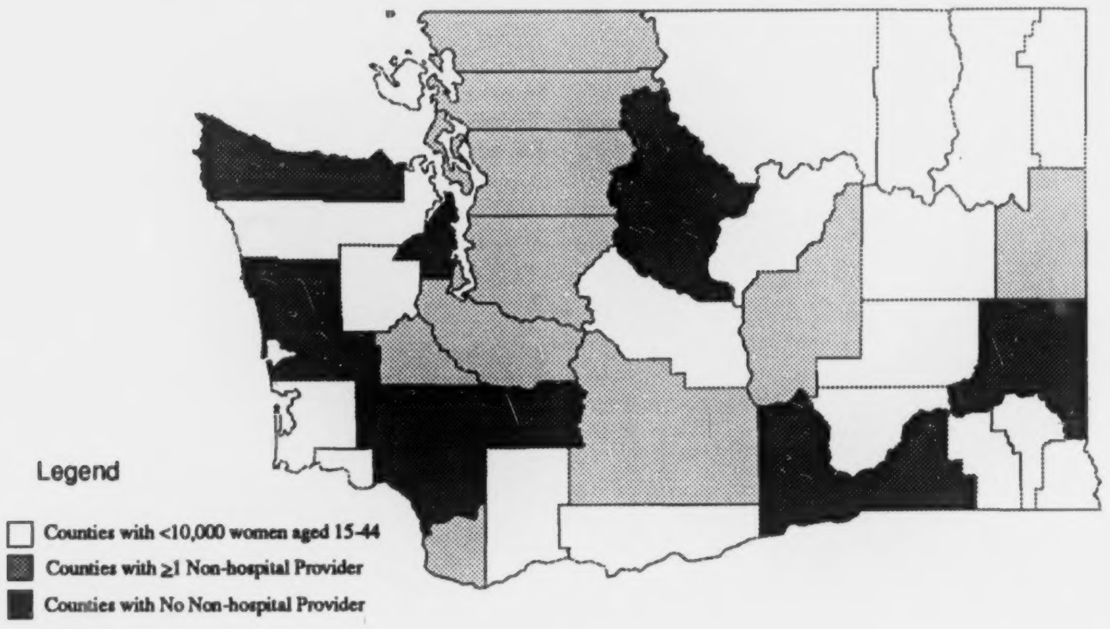

Legend
Counties with <10,000 women aged 15-44
Counties with ≥1 Non-hospital Provider
Counties with No Non-hospital Provider

Figure 22

TABLES

Summary of the Number of Live Births, Deaths, Infant Deaths, Maternal Deaths, and Fetal Deaths, with Rates

Washington State 1920-1988

Year	Population	Live Births		Deaths		Infant Deaths		Maternal Deaths		Fetal Deaths	
		Number	Rate[1]	Number	Rate[1]	Number	Rate[2]	Number	Rate[3]	Number	Ratio[2]
1920	1,367,000	27,072	19.8	15,164	11.1	1,797	66.4	249	92.0	888	32.8
1921	1,385,700	27,267	19.7	13,254	9.6	1,512	55.5	192	70.4	852	31.2
1922	1,407,100	25,378	18.0	14,249	10.1	1,566	61.7	190	74.9	731	28.8
1923	1,427,300	25,259	17.7	13,856	9.7	1,428	56.5	159	62.9	680	26.9
1924	1,447,200	25,378	17.5	14,580	10.1	1,426	56.2	167	65.8	711	28.0
1925	1,467,600	24,741	16.9	15,280	10.4	1,395	56.4	140	56.6	667	27.0
1926	1,487,600	23,989	16.1	15,670	10.5	1,352	56.4	174	72.5	719	30.0
1927	1,507,800	23,315	15.5	15,950	10.6	1,162	49.8	151	64.8	650	27.9
1928	1,528,200	23,161	15.2	16,723	10.9	1,115	48.1	175	75.6	641	27.7
1929	1,548,400	22,685	14.7	16,413	10.6	1,110	48.9	150	66.1	572	25.2
1930	1,568,000	23,019	14.7	16,678	10.6	1,122	48.7	148	64.3	601	26.1
1931	1,585,000	22,028	13.9	16,524	10.4	1,064	48.3	141	64.0	591	26.8
1932	1,602,500	21,379	13.3	16,581	10.3	967	45.2	139	65.0	530	24.8
1933	1,619,700	20,882	12.9	16,705	10.3	811	38.8	140	67.0	446	21.4
1934	1,636,900	22,484	13.7	17,456	10.7	968	43.1	105	46.7	520	23.1
1935	1,654,000	22,378	13.5	18,046	10.9	998	44.6	120	53.6	469	21.0
1936	1,671,400	23,354	14.0	19,057	11.4	1,064	45.6	115	49.2	468	20.0
1937	1,689,100	24,882	14.7	18,771	11.1	978	39.3	118	47.4	495	19.9
1938	1,706,000	26,702	15.7	18,514	10.9	1,035	38.8	94	35.2	440	16.5
1939	1,723,400	26,471	15.4	18,528	10.8	977	36.9	97	36.6	450	17.0
1940	1,752,400	27,952	16.0	19,837	11.3	969	34.7	89	31.8	459	16.4
1941	1,816,700	30,916	17.0	19,359	10.7	1,065	34.4	66	21.3	445	14.4
1942	1,880,700	38,744	20.6	20,190	10.7	1,278	33.0	78	20.1	606	15.6
1943	1,945,000	44,258	22.8	22,017	11.3	1,534	34.7	72	16.3	575	13.0
1944	2,009,600	44,246	22.0	21,144	10.5	1,493	33.7	72	16.3	607	13.7
1945	2,073,600	44,296	21.4	21,292	10.3	1,523	34.4	79	17.8	672	15.2
1946	2,137,600	51,941	24.3	21,620	10.1	1,723	33.2	65	12.5	869	16.7
1947	2,202,400	58,230	26.4	21,763	9.9	1,630	28.0	59	10.1	907	15.6
1948	2,266,400	55,460	24.5	21,925	9.7	1,525	27.5	36	6.5	776	14.0
1949	2,331,000	56,433	24.2	22,420	9.6	1,526	27.0	36	6.4	850	15.1
1950	2,378,963	55,755	23.4	22,450	9.4	1,526	27.4	28	5.0	799	14.3
1951	2,444,000	57,994	23.7	23,300	9.5	1,412	24.3	23	4.0	852	14.7
1952	2,496,100	61,436	24.6	22,874	9.2	1,522	24.8	15	2.4	857	13.9
1953	2,528,200	61,571	24.4	23,279	9.2	1,556	25.3	18	2.9	834	13.5
1954	2,566,000	62,703	24.4	23,238	9.1	1,514	24.1	29	4.6	829	13.2
1955	2,586,100	62,290	24.1	24,410	9.4	1,520	24.4	16	2.6	806	12.9

Year	Population	Live Births		Deaths		Infant Deaths		Maternal Deaths		Fetal Deaths	
		Number	Rate[1]	Number	Rate[1]	Number	Rate	Number	Rate[3]	Number	Ratio[2]
1956	2,651,900	64,999	24.5	24,207	9.1	1,524	23.4	13	2.0	777	12.0
1957	2,712,700	65,982	24.3	25,140	9.3	1,596	24.2	20	3.0	793	12.0
1958	2,767,900	65,574	23.7	25,429	9.2	1,707	26.0	11	1.7	764	11.7
1959	2,819,000	65,729	23.3	26,229	9.3	1,570	23.9	9	1.4	749	11.4
1960	2,853,214	65,251	22.9	26,505	9.3	1,528	23.4	17	2.6	738	11.3
1961	2,897,000	65,013	22.4	26,353	9.1	1,467	22.6	19	2.9	756	11.6
1962	2,948,000	64,812	22.0	27,343	9.3	1,476	22.8	6	0.9	704	10.9
1963	2,972,000	61,013	20.5	27,550	9.3	1,339	21.9	10	1.6	657	10.8
1964	3,008,000	57,148	19.0	28,106	9.3	1,277	22.3	7	1.2	637	11.1
1965	3,065,000	52,806	17.2	27,379	8.9	1,130	21.4	15	2.8	639	12.1
1966	3,125,000	51,777	16.6	29,035	9.3	1,084	20.9	13	2.5	554	10.7
1967	3,229,000	54,875	17.1	29,302	9.1	1,050	19.1	12	2.2	573	10.4
1968	3,329,000	57,206	17.2	30,360	9.1	1,120	19.6	8	1.4	620	10.8
1969	3,365,000	59,354	17.6	30,504	9.1	1,118	18.8	12	2.0	651	11.0
1970	3,409,169	60,499	17.7	29,901	8.8	1,135	18.8	9	1.5	640	10.6
1971	3,433,000	55,304	16.1	30,318	8.8	1,008	18.2	5	0.9	574	10.4
1972	3,418,800	48,250	14.1	29,747	8.7	805	17.0	6	1.2	428	8.8
1973	3,424,300	47,636	13.9	30,751	9.0	781	16.4	3	0.6	430	9.0
1974	3,448,100	50,096	14.5	29,773	8.6	763	15.2	4	0.8	450	9.0
1975	3,494,124	50,821	14.5	29,778	8.5	798	15.7	5	1.0	421	8.3
1976	3,571,600	53,004	14.8	30,275	8.5	765	14.4	3	0.6	439	8.3
1977	3,661,975	57,256	15.6	29,789	8.1	696	12.2	5	0.9	426	7.4
1978	3,774,294	58,725	15.6	30,469	8.1	737	12.6	4	0.7	465	7.9
1979	3,911,200	64,377	16.5	30,418	7.8	737	11.4	8	1.2	466	7.2
1980	4,130,163	67,857	16.4	32,012	7.8	798	11.8	10	1.5	533	7.9
1981	4,250,123	69,756	16.4	32,022	7.5	731	10.5	7	1.0	489	7.0
1982	4,264,000	69,529	16.3	32,309	7.6	744	10.7	8	1.2	501	7.2
1983	4,285,100	68,705	16.0	32,631	7.6	653	9.5	6	0.9	474	6.9
1984	4,328,100	68,947	15.9	33,788	7.8	704	10.2	7	1.0	444	6.4
1985	4,384,100	70,226	16.0	34,475	7.9	747	10.6	5	0.7	403	5.7
1986	4,419,700	69,431	15.7	34,166	7.7	675	9.7	2	0.3	445	6.4
1987	4,481,100	70,329	15.7	34,967	7.8	681	9.7	3	0.4	411	5.8
1988	4,565,000	72,471	15.9	36,299	8.0	652	9.0	3	0.4	381	5.3

[1] Per 1,000 Population

[2] 1961-1969 population figures are revised estimates provided by the Office of Program Planning and Fiscal Management.

[3] 1979-1988 maternal death figures are revised totals based on studies conducted by the Health Data Unit.

NATALITY

Table 1
Births in Washington State by Selected Topics, 1988

A. Residents, Sex by Race

	Total	Male	Female	Unknown
Total	72,471	37,136	35,334	1
White	61,905	31,775	30,129	1
African-American	3,586	1,843	1,743	
Native American	2,066	1,002	1,064	
Japanese	335	165	170	
Chinese	238	120	118	
Filipino	621	325	296	
Other Asian	2,877	1,476	1,401	
Other	12	6	6	
Unknown	831	424	407	
Hispanic[1]	4,556	2,302	2,254	

B. Residents, Mother's Age Group by Sex

	Total	Male	Female	Unknown
Total	72,471	37,136	35,334	1
Under 15	97	48	49	
15 - 17	2,498	1,274	1,224	
18 - 19	5,045	2,627	2,418	
20 - 24	19,344	9,820	9,524	
25 - 29	23,246	11,960	11,285	1
30 - 34	15,730	8,042	7,688	
35 - 39	5,577	2,892	2,685	
40 - 44	823	412	411	
45 and Over	34	18	16	
Unknown	77	43	34	

C. Residents, Attendant at Birth

Total	72,471	100.0%[2]
MD	67,233	92.8
Osteopath	1,187	1.6
Licensed Midwife	881	1.2
Certified Midwife	2,215	3.1
Other Midwife	32	—
Nurse	285	.4
Father/Mother	75	.1
Other	176	.2
Unknown	387	.5

D. Residents, Order of Birth to Mother

Total	72,471	100.0%[2]
1st Child	28,807	39.7
2nd Child	23,475	32.4
3rd Child	11,349	15.7
4th Child	4,162	5.7
5th Child	1,530	2.1
6th Child	600	.8
7th Child	263	.4
8th Child	127	.2
9th Child	63	.1
10th or more	72	.1
Unknown	2,023	2.8

E. Residents, Maternal Smoking

	Number	Percent
Total	72,471	100.0%[2]
Yes	17,095	23.6
No	51,376	70.9
Unknown	4,000	5.5

F. Residents, Multiple Live Births

Sets of Twins	777
Sets of Triplets	16
Sets of Quadruplets	2

[1] Hispanic numbers are not included in the total sum.
[2] Detail may not add to 100% due to rounding.

Table 1 (continued)
Births in Washington State by Selected Topics, 1988

G. Residence and Occurrence, Sex by Birth Weight in Grams

	Residence				Occurrence			
Gram Weight	Total	Male	Female	Unknown	Total	Male	Female	Unknown
Total	72,471	37,136	35,334	1	71,397	36,588	34,808	1
1,000 and under	303	155	148		295	148	147	
1,001 - 1,500	327	151	176		333	154	179	
1,501 - 2,000	730	355	375		705	342	363	
2,001 - 2,500	2,445	1,098	1,347		2,407	1,084	1,323	
2,501 - 3,000	9,443	4,167	5,276		9,268	4,100	5,168	
3,001 - 3,500	24,934	11,672	13,262		24,581	11,509	13,072	
3,501 - 4,000	23,754	12,820	10,933	1	23,427	12,637	10,789	1
4,001 - 4,500	8,494	5,306	3,188		8,372	5,227	3,145	
4,501 and over	1,923	1,356	567		1,894	1,335	559	
Unknown	118	56	62		115	52	63	

H. Residence and Occurrence, Live Births and Fetal Deaths by Month

	Live Births		Fetal Deaths	
	Residence	Occurrence	Residence	Occurrence
Total	72,471	71,397	381	370
January	5,528	5,452	38	36
February	5,526	5,439	32	31
March	6,261	6,198	36	35
April	6,030	5,954	37	37
May	6,392	6,293	33	30
June	6,228	6,147	43	44
July	6,351	6,252	26	27
August	6,367	6,285	34	33
September	6,252	6,166	33	31
October	5,995	5,885	36	34
November	5,782	5,691	14	14
December	5,759	5,635	19	18

Table 1 (continued)
Births in Washington State by Selected Topics, 1988

I. Occurrence, Method of Delivery

Method	Total	Normal Labor	Induced Labor	Unknown
Total	71,397	62,760	2,778	5,859
Vaginal Delivery	42,738	40,844	1,894	
Primary C-Section	8,432	8,111	321	
Repeat C-Section	5,179	5,133	46	
Vacuum Extraction	3,413	3,237	176	
Outlet Forceps	4,407	4,128	279	
Vaginal Delivery after Previous C-Section	784	757	27	
Other	585	550	35	
Unknown	5,859			

J. Occurrence, Type of Place

	Number	Percent
Total	71,397	100.0%[1]
General Hospital	65,571	91.8
Federal Facility	4,004	5.6
Home	1,289	1.8
Birth Center	241	.3
Born on Arrival	72	.1
Other and Unknown	220	.3

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[1] Detail may not add to 100% due to rounding.

S00310D-HBI

Table 2

Live Births by Child's Race by Birth Weight, Washington State Residents 1988

Birth Weight in Grams	Total	White	African-American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[1]
State Total	72,471	61,905	3,586	2,066	335	238	621	2,877	12	831	4,556
1,000 and under	303	230	40	13	4		1	10		5	3
1,001 - 1,500	327	251	41	17		1	4	10		3	14
1,501 - 2,000	730	581	71	24	3	4	4	33		10	44
2,001 - 2,500	2,445	1,917	235	105	13	10	23	117		25	144
2,501 - 3,000	9,443	7,543	743	272	53	46	123	546	5	112	615
3,001 - 3,500	24,934	20,985	1,282	662	147	100	260	1,206	3	289	1,813
3,501 - 4,000	23,754	20,945	873	651	77	59	159	708	2	280	1,374
4,001 - 4,500	8,494	7,627	242	252	30	13	44	205	2	79	451
4,501 and over	1,923	1,734	53	66	6	4	3	41		16	95
Not Stated	118	92	6	4	2	1		1		12	3

S00310C-HBI

Table 3

Live Births by Mother's Age by Birth Weight, Washington State Residents 1988

Birth Weight in Grams	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Total	72,471	97	2,498	5,045	19,344	23,246	15,730	5,577	823	34	77
1,000 and under	303	2	16	27	88	89	51	23	4	—	3
1,001 - 1,500	327	2	21	33	80	96	62	28	4	—	1
1,501 - 2,000	730	2	36	63	192	203	161	62	9	2	
2,001 - 2,500	2,445	8	99	183	679	761	495	182	35	—	3
2,501 - 3,000	9,443	16	453	796	2,632	2,940	1,863	627	101	5	10
3,001 - 3,500	24,934	41	973	1,861	7,018	7,841	5,113	1,806	241	11	29
3,501 - 4,000	23,754	15	665	1,567	6,194	7,804	5,392	1,819	265	12	21
4,001 - 4,500	8,494	9	190	424	2,034	2,826	2,067	817	116	3	8
4,501 and over	1,923	2	34	77	406	651	505	202	45	—	1
Not Stated	118	—	11	14	21	35	21	11	3	1	1

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[1] Hispanic numbers are not included in total sum.

S02680A-HBI

Table 4

Live Births by Mother's Age by Month Care Began, Wasington State Residents 1988

Month Prenatal Care Began	All Ages	Under 15	15-17'	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Total	72,471	97	2,498	5,045	19,344	23,246	15,730	5,577	823	34	77
First	11,296	5	157	386	2,380	4,220	2,949	1,049	140	4	6
Second	26,314	9	498	1,128	6,559	9,271	6,333	2,196	291	6	23
Third	16,274	17	514	1,153	4,427	5,106	3,616	1,224	193	9	15
Fourth	6,667	11	368	766	2,127	1,765	1,129	418	72	4	7
Fifth	3,650	12	299	533	1,214	891	453	205	37	3	3
Sixth	2,235	8	219	365	742	488	272	109	23	3	6
Seventh	1,494	13	147	248	514	326	160	65	15	2	4
Eighth	929	11	78	133	333	224	102	37	10		1
Ninth	365	2	31	50	132	92	36	18	4		
No care	659	1	69	94	224	142	78	39	6	1	5
Unknown	2,588	8	118	189	692	721	602	217	32	2	7

S02690A-HBI

Table 5

Live Births by Number of Prenatal Visits by Month Care Began, Washington State Residents 1988

Number of Prenatal Visits	Month Care Began					
	Total	1-3	4-6	7-9	No Care	Unknown
Total	72,471	53,884	12,552	2,788	659	2,588
9 or More	55,118	47,566	6,904	286		362
5 - 8	10,012	4,268	4,519	1,083		140
1 - 4	2,926	591	870	1,354		111
No Visits	721	8	5	14	641	53
Unknown	3,694	1,451	254	49	18	1,922

Table 6

Live Births with Rates by Place of Residence by Sex and Place of Occurrence, Washington State 1988

	Residence				Occurrence	
County and City	Number	Rate	Male	Female	Number	Rate
State Totals	72,471	15.9	37,136	35,334	71,397	15.6
Adams	259	18.5	124	135	287	20.5
Asotin	233	13.4	119	114	1	.1
Benton	1,748	16.8	911	837	2,039	19.6
Kennewick	814	21.9	450	364	740	19.9
Richland	410	13.6	213	197	956	31.7
Chelan	832	16.7	412	420	1,199	24.1
Wenatchee	341	18.1	166	175	1,106	58.6
Clallam	704	12.9	372	332	710	13.1
Port Angeles	244	14.1	135	109	622	35.9
Clark	3,465	16.2	1,788	1,677	2,318	10.8
Vancouver	1,529	35.3	774	755	2,304	53.2
Columbia	52	12.7	27	25	1	.2
Cowlitz	1,254	15.6	646	608	1,347	16.7
Kelso	225	20.7	128	97	2	.2
Longview	531	18.0	266	265	1,339	45.3
Douglas	349	14.5	179	170	6	.2
Ferry	77	12.6	38	39	36	5.9
Franklin	778	21.9	418	360	658	18.5
Pasco	518	28.1	279	239	655	35.5
Garfield	12	5.0	10	2		
Grant	892	17.0	460	432	702	13.3
Moses Lake	199	18.7	100	99	597	56.1
Grays Harbor	958	15.1	508	450	670	10.6
Aberdeen	293	17.1	167	126	659	38.5
Island	932	17.5	443	489	792	14.8
Oak Harbor	416	28.9	198	218	25	1.7
Jefferson	230	12.4	116	114	177	9.5
King	21,205	15.0	10,863	10,342	23,939	16.9
Auburn	635	20.6	333	302	605	19.6
Bellevue	975	11.4	482	493	2,254	26.5
Des Moines	142	10.1	74	68	1	.1
Kent	589	18.2	313	276	22	.7
Kirkland	351	9.8	186	165	1,965	54.9
Mercer Island	188	9.1	94	94	5	.2
Redmond	504	15.9	270	234	1,463	46.1
Renton	649	17.6	351	298	2,798	75.7
Seattle	7,020	14.2	3,565	3,455	13,661	27.5
Kitsap	2,850	16.1	1,448	1,402	2,495	14.1
Bremerton	1,074	29.0	554	520	1,897	51.2
Kittitas	295	11.8	144	151	274	11.0
Ellensburg	134	11.7	64	70	271	23.6
Klickitat	221	13.3	101	120	224	13.5
Lewis	851	14.8	434	417	898	15.6
Centralia	215	18.1	112	103	646	54.5
Lincoln	102	10.5	63	39	9	.9
Mason	443	12.0	227	216	225	6.1
Okanogan	543	17.1	275	268	527	16.6
Pacific	253	14.4	136	117	124	7.0
Pend Oreille	125	14.2	52	73	58	6.6
Pierce	9,924	18.1	5,132	4,792	10,560	19.3
Puyallup	405	19.4	216	189	1,356	65.1
Tacoma	3,334	20.7	1,709	1,625	6,478	40.1
San Juan	104	10.8	58	46	9	.9
Skagit	1,101	15.6	550	551	1,385	19.6
Anacortes	141	13.7	60	81	192	18.6
Mount Vernon	289	19.8	146	143	885	60.7
Skamania	107	13.4	57	50	1	.1
Snohomish	7,371	18.0	3,766	3,604	5,067	12.4
Edmonds	459	16.1	231	228	1,548	54.3
Everett	1,585	26.0	803	782	2,916	47.9
Lynnwood	618	24.3	292	326	24	.9
Mountlake Terrace	269	16.5	137	132	8	.5
Spokane	5,311	15.0	2,743	2,568	6,082	17.2
Spokane (city)	2,983	17.5	1,540	1,443	5,612	33.0
Stevens	399	13.2	203	196	243	8.0
Thurston	2,190	14.7	1,144	1,046	2,079	13.9
Lacey	307	18.7	153	154	4	.2
Olympia	616	20.4	326	290	2,058	68.0
Wahkiakum	39	11.1	23	16	1	.3
Walla Walla	630	13.0	312	318	885	18.3
Walla Walla (city)	374	14.7	186	188	876	34.4
Whatcom	1,673	14.0	859	814	1,598	13.4
Bellingham	644	13.8	348	296	1,580	33.9
Whitman	405	10.4	200	205	365	9.4
Pullman	191	8.6	97	94	353	15.9
Yakima	3,554	19.1	1,775	1,779	3,406	18.3
Yakima (city)	1,004	20.3	494	510	2,544	51.4

S02500A-HBI

Table 7. Live Birth Intercounty Travel Patterns

Occurrence → Residence ↓	Adams	Asotin	Benton	Chelan	Clallam	Clark	Columbia	Cowlitz	Douglas	Ferry	Franklin	Garfield	Grant	Grays Harbor	Island	Jefferson	King
Adams	168		13								3		28	1			
Asotin		1															
Benton	3		1426								233		1				2
Chelan				792													18
Clallam					670									3	1	5	18
Clark						2203		7									3
Columbia							1	3			2						
Cowlitz						61		1108									2
Douglas				307					6				3				4
Ferry										33			1				
Franklin	39		315	2				1			396						1
Garfield																	
Grant	72		16	89							3		643				6
Grays Harbor					2									618			28
Island															771		32
Jefferson					28											163	17
King			2	2		1		6					1			1	20150
Kitsap															1	5	202
Kittitas				2													8
Klickitat			1			1											
Lewis								26					1	1			14
Lincoln													3				
Mason					1									1		1	15
Okanogan			1	3						1			21				4
Pacific								6						43			
Pend Oreille																	
Pierce					1	2		3						1			755
San Juan																	6
Skagit															10		31
Skamania						11											
Snohomish			2		2			1			1				5	1	2419
Spokane			1														1
Stevens										2							
Thurston			1		4			2						1			49
Wahkiakum								29									
Walla Walla			17								9						1
Whatcom						1								1	2		35
Whitman	3																2
Yakima	2		214	1				1			5				1		15
Out-of-State			30	1	2	38		154			6				1	1	101

Residence and Occurrence, Washington State 1988

Kitsap	Kittitas	Klickitat	Lewis	Lincoln	Mason	Okanogan	Pacific	Pend Oreille	Pierce	San Juan	Skagit	Skamania	Snohomish	Spokane	Stevens	Thurston	Wahkiakum	Walla Walla	Whatcom	Whitman	Yakima	Out-of-State
				2										41	1							2
														5						7		220
									1				1	16				5	1		47	12
						17								3					1			1
2			1						1				1			1						1
1		2							3					1							1	1244
																		44				2
			7				2		4				1			2						67
						27								2								
						3								21	19							
														19				2				3
											1			1				1		1		8
	5			3		1								43							9	2
	2		35		4		37		20				1			208						3
2			1						10		78		34						1			3
17			1		1				2				1									
11			2		2	1			739		2		225	4		5		1	1		1	48
2341					1				276				10			1						13
	258						1				1										25	
		141																1			6	71
			739						15							48					3	4
				4										94								1
83			2		211				31							97						1
						475								34					1	1	1	1
			7				82		3							21		1				90
								45						58	12							10
30	1		6		1	1	1		9034				7			48		1			2	30
										9	82		1						6			
1									1		1033		10	1					12		1	1
		32							2			1		1								60
2	1		2						15		122		4785	1	1	4			8	1	4	14
								1	2					5276	1					1		28
	1													186	209							1
2			95		5				375		2		1	1		1641						11
																	1					9
														6				589				8
							1		1		61		5			1			1561			4
									1					68					1	287		43
	4								3		1			2							3299	6
3	2	49				2		12	21		2		4	198		2		240	5	67	7	

Table 8

Live Births by Child's Race by Place of Residence, Washington State 1988

County and City	Total	White	African-American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[1]
State Totals	72,471	61,905	3,586	2,066	335	238	621	2,877	12	831	4,556
Adams	259	256		1	2						146
Asotin	233	220	2	10				1			
Benton	1,748	1,645	36	16	2	2		46		1	218
Kennewick	814	759	21	9	2			23			107
Richland	410	378	11	3				17		1	21
Chelan	832	812	1	11	1	1		5		1	176
Wenatchee	341	331	1	7	1			1			44
Clallam	704	626	4	62	2	3	2	4		1	17
Port Angeles	244	230	2	8	1		1	2			5
Clark	3,465	3,175	77	51	10	6	16	85		45	85
Vancouver	1,529	1,358	52	28	7	4	11	54		15	50
Columbia	52	51					1				9
Cowlitz	1,254	1,188	7	30	2	1	4	17		5	40
Kelso	225	206	1	9	1	1	1	6			13
Longview	531	496	3	16			2	10		4	17
Douglas	349	343		2		1		1	2		65
Ferry	77	52		25							1
Franklin	778	720	32	4	1	1	1	16		3	325
Pasco	518	470	30	4		1		11		2	251
Garfield	12	11					1				
Grant	892	858	9	11	8		2	3		1	248
Moses Lake	199	186	4	1	5		1	2			54
Grays Harbor	958	836	3	93	3		4	17		2	28
Aberdeen	293	253	1	29			2	8			7
Island	932	820	41	10	6	1	28	22	1	3	39
Oak Harbor	416	346	31	3			21	14		1	26
Jefferson	230	218	1	8	1	1		1			7
King	21,205	16,745	1,580	369	161	149	338	1,458		405	765
Auburn	635	568	12	17	2	1	6	21		8	17
Bellevue	975	799	36	2	9	6	4	96		23	21
Des Moines	142	120	7	4			1	8		2	8
Kent	589	507	26	14	3	2	3	22		12	21
Kirkland	351	307	6	1		1	2	14		20	10
Mercer Island	188	165	1		3	5		13		1	2
Redmond	504	444	9	2	3	4	3	22		17	14
Renton	649	520	47	16	6	6	8	33		13	25
Seattle	7,020	4,530	1,091	166	61	86	217	749		118	312
Kitsap	2,850	2,462	134	74	12	6	55	102	1	4	156
Bremerton	1,074	843	104	26	5	3	32	59	1	1	80
Kittitas	295	280	1	8			2	4			5
Ellensburg	134	122	1	5			2	4			4
Klickitat	221	192		21						8	11
Lewis	851	821	3	14	2			9		2	28
Centralia	215	207	1	3				4			11
Lincoln	102	98		4							
Mason	443	386	2	36	2	1	2	9	1	4	17
Okanogan	543	435		103			1	2		2	115
Pacific	253	231	1	11	2		1	4		3	9
Pend Oreille	125	113		9				2		1	3
Pierce	9,924	7,846	1,272	227	57	16	77	585	2	42	540
Puyallup	405	359	9	11	6	1	2	16		1	12
Tacoma	3,334	2,258	589	111	18	7	32	306		13	157
San Juan	104	101		1	1					1	
Skagit	1,101	1,037	3	39	3	2	2	11		4	146
Anacortes	141	129	1	6	1	1	1	1		1	5
Mount Vernon	289	281	1	3				3		1	67
Skamania	107	100		1	1		1			4	3
Snohomish	7,371	6,597	102	162	12	18	35	244		201	192
Edmonds	459	414	7	8	1	2		27			7
Everett	1,585	1,372	35	41	2	3	8	58		66	47
Lynnwood	618	527	23	13		1	4	38		12	16
Mountlake Terrace	269	241	3	3		2	3	13		4	9
Spokane	5,311	4,874	147	146	25	11	18	81		9	117
Spokane (city)	2,983	2,672	99	114	18	7	12	55		6	73
Stevens	399	333		59	3	1	1	1		1	5
Thurston	2,190	1,948	57	55	9	4	15	72		30	90
Lacey	307	265	15	1	3		3	15		5	13
Olympia	616	521	20	22	3	4	5	34		7	28
Wahkiakum	39	38								1	1
Walla Walla	630	613	4	5	2		1	3		2	98
Walla Walla (city)	374	360	4	4			1	3		2	54
Whatcom	1,673	1,475	10	120	1	3	2	33		29	84
Bellingham	644	548	7	54	1	2	2	20		10	18
Whitman	405	355	18	4	1	9		18			7
Pullman	191	149	14	2	1	6		17			3
Yakima	3,554	3,194	39	264	3	1	11	21	5	16	760
Yakima (city)	1,004	909	29	45	1		5	9		6	11

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[1] Hispanic numbers are not included in total sum.

Table 9

Live Births by Mother's Age Group by Place of Residence, Washington State 1988

County and City	All Ages	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Totals	72,471	97	2,498	5,045	19,344	23,246	15,730	5,577	823	34	77
Adams	259		9	24	96	71	47	10	2		
Asotin	233	1	11	33	88	63	29	8			
Benton	1,748	1	64	127	493	605	340	101	17		
Kennewick	814		35	69	243	277	143	40	7		
Richland	410		9	27	105	145	87	34	3		
Chelan	832	3	24	54	258	285	151	47	9		1
Wenatchee	341	3	14	21	109	113	59	18	3		1
Clallam	704	1	24	63	212	213	140	47	3		1
Port Angeles	244		9	28	65	77	50	13	2		
Clark	3,465	4	123	278	1,030	1,063	685	239	39	3	1
Vancouver	1,529	2	63	155	549	429	250	68	13		
Columbia	52		3	8	17	16	5	3			
Cowlitz	1,254	8	65	140	430	388	156	60	6	1	
Kelso	225	3	10	38	99	51	16	6	1	1	
Longview	531	5	37	61	173	164	61	27	3		
Douglas	349		15	19	109	113	72	17	4		
Ferry	77		5	8	26	13	15	8	2		
Franklin	778	3	51	66	231	245	125	51	4		2
Pasco	518	3	41	55	169	154	68	27	1		
Garfield	12		1		3	5	3				
Grant	892	1	51	75	258	293	158	43	11	2	
Moses Lake	199	1	12	17	63	62	34	8	2		
Grays Harbor	958		58	97	300	268	162	53	19	1	
Aberdeen	293		22	31	93	71	46	22	7	1	
Island	932		15	70	323	293	160	60	11		
Oak Harbor	416		4	33	183	127	48	19	2		
Jefferson	230		5	15	54	69	53	32	2		
King	21,205	17	539	934	4,160	6,976	5,883	2,303	334	8	51
Auburn	635	3	23	70	215	204	95	19	4	1	1
Bellevue	975		9	26	150	347	315	103	23		2
Des Moines	142		4	8	35	60	24	7	3		1
Kent	589		10	32	201	204	111	22	8		1
Kirkland	351		8	10	80	116	98	30	7		2
Mercer Island	188		2	1	13	39	80	48	5		
Redmond	504		5	15	80	176	166	54	6		2
Renton	649		17	32	183	236	133	42	5		1
Seattle	7,020	8	249	319	1,240	1,905	2,093	1,036	146	3	21
Kitsap	2,850	1	94	234	831	896	561	200	32	1	
Bremerton	1,074	1	45	128	384	309	146	52	9		
Kittitas	295	1	7	13	85	103	62	20	4		
Ellensburg	134	1	5	8	49	41	20	8	2		
Klickitat	221	2	6	23	75	61	41	10	3		
Lewis	851	1	41	98	284	248	125	49	3	2	
Centralia	215		14	35	72	60	24	10			
Lincoln	102			3	31	40	22	6			
Mason	443	2	23	49	121	134	80	30	3	1	
Okanogan	543		32	51	162	158	99	39	2		
Pacific	253		13	19	72	85	45	13	5	1	
Pend Oreille	125		7	19	37	33	23	6			
Pierce	9,924	11	353	816	3,179	3,145	1,761	565	87	5	2
Puyallup	405		18	25	143	119	74	24	2		
Tacoma	3,334	6	165	299	1,040	1,029	560	200	31	4	
San Juan	104		1	1	12	35	33	19	3		
Skagit	1,101	1	47	90	307	350	230	63	12	1	
Anacortes	141		4	12	41	43	33	8			
Mount Vernon	289		9	34	96	86	46	16	2		
Skamania	107		9	4	29	35	20	8	2		
Snohomish	7,371	4	180	459	1,825	2,592	1,694	548	63	3	3
Edmonds	459		5	19	89	150	136	53	6		1
Everett	1,585	2	52	139	527	513	263	83	4	1	1
Lynnwood	618		7	42	172	218	128	42	8	1	
Mountlake Terrace	269		12	19	62	103	55	16	2		
Spokane	5,311	6	192	428	1,546	1,745	1,020	315	46	2	11
Spokane (city)	2,983	2	127	273	869	976	540	168	23	1	4
Stevens	399		19	41	135	98	77	23	5	1	
Thurston	2,190	5	77	166	630	640	445	189	34	1	3
Lacey	307		17	24	104	92	44	22	3		1
Olympia	616	3	26	51	186	160	136	46	7		1
Wahkiakum	39		2	3	13	10	4	6	1		
Walla Walla	630	3	30	49	175	210	130	26	6	1	
Walla Walla (city)	374	2	18	36	102	127	67	15	6	1	
Whatcom	1,673	4	58	97	433	526	393	148	12		2
Bellingham	644	2	20	40	162	193	154	66	5		2
Whitman	405		6	16	89	160	105	25	4		
Pullman	191		4	6	40	73	53	13	2		
Yakima	3,554	17	238	355	1,185	963	576	187	33		
Yakima (city)	1,004	6	61	115	364	250	154	44	10		

Table 10

Live Births by Month by Place of Residence, Washington State 1988

County and City	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
State Totals	72,471	5,528	5,526	6,261	6,030	6,392	6,228	6,351	6,367	6,252	5,995	5,782	5,759
Adams	259	18	20	16	19	23	29	23	21	26	23	20	21
Asotin	233	17	24	6	21	17	20	25	22	22	14	25	20
Benton	1,748	133	139	159	145	148	164	162	172	135	145	117	129
Kennewick	814	79	67	57	62	69	81	77	82	59	65	54	62
Richland	410	29	31	37	32	33	40	40	32	35	42	28	31
Chelan	832	71	56	72	63	57	75	83	62	82	75	68	68
Wenatchee	341	30	21	35	27	24	37	29	27	25	29	26	31
Clallam	704	62	59	56	52	57	47	60	69	62	57	59	64
Port Angeles	244	25	20	16	26	18	17	17	20	21	19	22	23
Clark	3,465	263	284	284	277	302	266	323	320	257	297	273	319
Vancouver	1,529	123	128	138	122	118	111	138	142	116	123	120	150
Columbia	52	8	3	7	5	8	5	3	2	2	2	5	2
Cowlitz	1,254	104	104	122	108	95	89	102	99	107	109	100	115
Kelso	225	25	16	20	18	11	19	19	21	15	17	23	21
Longview	531	38	49	51	53	46	32	47	36	48	49	39	43
Douglas	349	25	25	23	32	39	19	32	33	39	31	25	26
Ferry	77	7	2	11	5	7	4	6	8	8	9	5	5
Franklin	778	59	57	53	88	66	70	77	55	73	66	56	58
Pasco	518	40	37	35	59	37	55	49	37	43	48	36	42
Garfield	12	2	—	2	2	—	2	—	2	1	1		
Grant	892	61	58	95	68	58	80	90	87	78	76	75	66
Moses Lake	199	16	13	16	21	5	19	14	18	19	18	24	16
Grays Harbor	958	72	81	71	83	82	68	87	98	79	76	80	81
Aberdeen	293	19	27	18	33	30	22	31	22	13	23	23	32
Island	932	79	72	70	62	87	76	86	86	85	85	74	70
Oak Harbor	416	33	28	26	24	41	34	40	45	35	45	32	33
Jefferson	230	20	16	19	26	20	29	15	21	20	19	11	14
King	21,205	1,615	1,593	1,860	1,746	1,940	1,856	1,765	1,895	1,794	1,752	1,735	1,654
Auburn	635	49	62	59	43	53	46	56	61	59	40	57	50
Bellevue	975	59	90	87	76	95	97	70	92	86	87	65	71
Des Moines	142	7	11	7	12	9	10	10	13	11	24	8	20
Kent	589	34	38	34	47	43	49	66	70	44	53	56	55
Kirkland	351	31	20	27	28	40	30	30	25	32	33	24	31
Mercer Island	188	15	10	12	12	16	15	22	29	14	14	19	10
Redmond	504	36	30	48	52	35	42	48	38	43	50	39	43
Renton	649	52	52	53	58	54	52	60	59	59	49	54	47
Seattle	7,020	541	560	613	554	640	651	594	634	559	566	576	532
Kitsap	2,850	201	221	250	256	206	239	284	266	243	244	204	236
Bremerton	1,074	74	79	81	94	88	96	108	102	94	92	78	88
Kittitas	295	21	16	41	32	22	25	19	22	31	20	23	23
Ellensburg	134	13	6	18	19	9	13	10	8	7	10	11	10
Klickitat	221	14	17	24	18	13	17	20	20	30	20	14	14
Lewis	851	64	78	73	64	77	76	68	83	86	61	51	70
Centralia	215	17	18	19	21	15	16	22	18	25	12	13	19
Lincoln	102	9	8	13	14	11	3	5	7	8	7	6	11
Mason	443	33	34	26	39	42	41	47	31	39	40	32	39
Okanogan	543	32	38	45	41	41	40	52	58	52	56	40	48
Pacific	253	16	24	25	17	20	24	29	18	23	20	17	20
Pend Oreille	125	10	10	4	9	10	13	12	8	16	13	9	11
Pierce	9,924	791	801	887	866	883	820	829	847	869	769	772	790
Puyallup	405	33	29	32	38	40	33	48	35	35	22	32	28
Tacoma	3,334	262	275	295	301	286	296	297	286	283	254	247	252
San Juan	104	12	6	8	6	7	7	11	9	5	15	10	8
Skagit	1,101	66	78	91	88	113	96	129	89	85	87	80	99
Anacortes	141	5	10	13	11	17	9	17	12	11	12	13	11
Mount Vernon	289	19	20	25	21	26	32	30	20	23	25	18	30
Skamania	107	10	8	7	8	15	14	6	5	9	8	8	9
Snohomish	7,371	553	544	636	609	656	628	667	631	623	620	612	592
Edmonds	459	42	34	43	30	41	41	49	32	39	36	35	37
Everett	1,585	121	114	126	149	147	143	142	128	143	124	125	123
Lynnwood	618	49	43	49	37	59	55	55	65	49	57	50	50
Mountlake Terrace	269	21	12	23	16	16	22	26	24	30	29	28	22
Spokane	5,311	448	384	432	476	472	472	432	445	483	444	426	397
Spokane (city)	2,983	269	193	231	261	266	269	252	240	274	248	254	226
Stevens	399	33	34	35	34	37	33	27	40	30	34	30	32
Thurston	2,190	134	186	200	183	210	194	190	164	181	177	196	175
Lacey	307	20	29	32	32	26	20	28	30	21	21	28	20
Olympia	616	46	61	62	41	59	59	50	50	48	42	51	47
Wahkiakum	38	5	3	2	3	4	—	4	1	4	4	3	6
Walla Walla	630	43	40	73	40	66	57	65	62	41	45	49	49
Walla Walla (city)	374	24	25	44	27	41	37	41	31	28	30	21	25
Whatcom	1,673	111	133	145	138	137	137	165	183	142	123	141	118
Bellingham	644	45	55	51	56	58	62	61	64	59	35	50	48
Whitman	405	35	34	41	32	40	31	24	25	49	36	27	31
Pullman	191	16	18	17	21	17	16	13	9	25	13	12	14
Yakima	3,554	271	236	277	255	304	362	327	301	333	315	304	269
Yakima (city)	1,004	85	56	78	65	83	102	104	86	81	106	94	64

Table 11

Live Births by Birth Weight in Grams by Place of Residence, Washington State 1988

County and City	Total	1000 or Less	1001-1500	1501-2000	2001-2500	2501-3000	3001-3500	3501-4000	4001-4500	4501 and Over	Not Stated
State Totals	72,471	303	327	730	2,445	9,443	24,934	23,754	8,494	1,923	118
Adams	259		2	4	9	27	101	85	24	7	
Asotin	233	3		3	8	29	86	70	28	6	
Benton	1,748	5	6	16	51	217	628	548	220	57	
Kennewick	814	1	1	9	19	115	293	257	93	26	
Richland	410	3	2	3	15	42	137	138	57	13	
Chelan	832	2	2	10	25	103	262	304	85	18	1
Wenatchee	341		2	3	9	48	113	118	38	10	
Clallam	704	3	2	3	21	75	250	239	86	25	
Port Angeles	244	1		2	8	32	87	79	25	10	
Clark	3,465	11	13	39	98	456	1,137	1,142	456	104	9
Vancouver	1,529	6	3	10	46	226	533	478	184	37	6
Columbia	52		1		1	10	13	17	8	2	
Cowlitz	1,254	2	3	20	46	144	410	434	147	42	6
Kelso	225	2		4	12	33	67	72	19	13	3
Longview	531		3	10	16	54	178	188	66	14	2
Douglas	349			3	13	48	120	114	43	7	1
Ferry	77			1	3	8	22	37	5	1	
Franklin	778	5	6	9	19	106	269	261	79	24	
Pasco	518	4	6	6	13	66	178	185	48	12	
Garfield	12	1					3	5	2	1	
Grant	892		7	4	34	120	316	279	115	16	1
Moses Lake	199			1	8	30	82	52	26		
Grays Harbor	958	7	7	12	35	100	336	312	110	34	5
Aberdeen	293	3	1	1	13	32	109	90	31	12	1
Island	932	2	2	5	20	114	295	340	123	31	
Oak Harbor	416	1	1	2	8	53	130	162	45	14	
Jefferson	230	3	1	4	7	32	61	74	42	6	
King	21,205	94	101	217	776	2,820	7,365	6,899	2,389	533	11
Auburn	635	5	1	8	24	84	215	205	82	11	
Bellevue	975	5	3	7	23	97	364	345	110	21	
Des Moines	142			3	7	18	43	51	15	5	
Kent	589	2	1	8	22	88	192	197	63	15	1
Kirkland	351	1		3	10	35	122	127	42	11	
Mercer Island	188		2	2	5	17	69	63	28	2	
Redmond	504	2	3	3	17	64	160	184	59	12	
Renton	649	2	3	7	20	88	239	205	69	16	
Seattle	7,020	44	48	90	310	1,105	2,487	2,096	679	153	8
Kitsap	2,850	9	14	18	95	336	973	930	374	98	3
Bremerton	1,074	4	7	11	45	121	385	334	130	35	2
Kittitas	295	1	2	2	13	30	108	96	34	9	
Ellensburg	134	1	1		2	11	52	48	14	5	
Klickitat	221	1	3	1	6	26	76	70	28	10	
Lewis	851	4	3	5	27	111	286	283	110	21	1
Centralia	215	1		3	6	31	66	71	28	8	1
Lincoln	102					15	28	39	17	3	
Mason	443	1		5	13	57	140	152	54	15	6
Okanogan	543	1	1	13	13	89	203	154	56	10	3
Pacific	253		1	2	1	32	109	76	23	5	4
Pend Oreille	125		2	3	3	28	41	30	12	6	
Pierce	9,924	51	66	128	429	1,399	3,472	3,089	1,062	222	6
Puyallup	405		5	2	12	45	134	150	47	10	
Tacoma	3,334	23	20	39	151	546	1,184	961	340	68	2
San Juan	104		1		1	8	43	38	11	1	1
Skagit	1,101	3	5	10	28	132	393	370	137	23	
Anacortes	141		1			13	47	56	23	1	
Mount Vernon	289		2	4	8	41	104	96	30	4	
Skamania	107	1			4	10	30	42	16	3	1
Snohomish	7,371	34	33	69	205	881	2,441	2,514	969	225	
Edmonds	459	2	2	6	10	55	162	156	52	14	
Everett	1,585	5	7	14	53	199	546	487	218	56	
Lynnwood	618	6	3	6	19	72	207	212	73	20	
Mountlake Terrace	269	1	1	5	7	27	108	87	29	4	
Spokane	5,311	25	18	49	181	719	1,921	1,735	544	115	4
Spokane (city)	2,983	19	9	25	105	433	1,091	962	276	61	2
Stevens	399	1		4	16	53	135	134	43	13	
Thurston	2,190	13	2	19	65	252	710	736	274	70	49
Lacey	307			2	9	33	87	121	39	8	8
Olympia	616	3	1	5	18	67	209	196	82	20	15
Wahkiakum	39			1	1	2	10	16	9		
Walla Walla	630	5		2	15	95	204	222	78	9	
Walla Walla (city)	374	3		1	10	58	124	129	47	2	
Whatcom	1,673	4	5	14	33	206	529	563	272	43	2
Bellingham	644	1	3	7	11	77	209	211	109	15	1
Whitman	405	1	3	6	8	55	133	145	47	7	
Pullman	191		1	1	6	26	64	71	19	3	
Yakima	3,554	10	15	29	122	496	1,255	1,160	362	101	4
Yakima (city)	1,004	4	5	11	41	160	365	309	91	18	

Table 12

Multiple Births by Number Born Alive Each Set by Place of Residence, Washington State 1988

County and City	Sets of Twins			Sets of Triplets				Sets of Four or More[1]
	2 Born Alive	1 Born Alive	None Alive	3 Born Alive	2 Born Alive	1 Born Alive	None Alive	Total
State Total	745	32		14	2			2
Adams	3							
Asotin	2							
Benton	17	1						
Kennewick	9	1						
Richland	5							
Chelan	10							
Wenatchee	2							
Clallam	5							
Port Angeles	4							
Clark	29	3						
Vancouver	12							
Columbia	1							
Cowlitz	11							
Kelso	2							
Longview	6							
Douglas	5	1						
Ferry	1							
Franklin	9							
Pasco	8							
Garfield								
Grant	7							
Moses Lake	2							
Grays Harbor	17	1						
Aberdeen	4							
Island	7	2						
Oak Harbor	4							
Jefferson	2							
King	222	10		6				2
Auburn	8							
Bellevue	9							
Des Moines								
Kent	4							1
Kirkland	1							
Mercer Island	4							
Redmond	5							
Renton	5	1						
Seattle	73	5		2				
Kitsap	22			2				
Bremerton	7			2				
Kittitas	4							
Ellensburg	1							
Klickitat	2							
Lewis	4	1						
Centralia	3	1						
Lincoln								
Mason	5							
Okanogan	5	2						
Pacific	1							
Pend Oreille	2							
Pierce	113	4		4	2			
Puyallup	4							
Tacoma	33			1	1			
San Juan								
Skagit	11							
Anacortes	1							
Mount Vernon	3							
Skamania	1							
Snohomish	74	4		2				
Edmonds	5							
Everett	16							
Lynnwood	7	1						
Mountlake Terrace	3							
Spokane	65	1						
Spokane (city)	32							
Stevens	7							
Thurston	19							
Lacey	3							
Olympia	6							
Wahkiakum								
Walla Walla	5							
Walla Walla (city)	3							
Whatcom	20	1						
Bellingham	10	1						
Whitman	3							
Pullman	1							
Yakima	34	1						
Yakima (city)	13							

[1] Two sets of quadruplets: One set, 1 live born; One set, 2 live born.

Table 13

Live Births with Malformations with Percent of Total Births by Place of Residence, Washington State 1988

County and City	Total Births	Births with Malformations	Percent of Total Births[1]	Total Malformations[2]
State Total	72,471	1,375	1.9	1,574
Adams	259	4	1.5	8
Asotin	233	4	1.7	4
Benton	1,748	19	1.1	23
Kennewick	814	9	1.1	12
Richland	410	3	.7	4
Chelan	832	17	2.0	18
Wenatchee	341	9	2.6	10
Clallam	704	14	2.0	15
Port Angeles	244	3	1.2	3
Clark	3,465	23	.7	28
Vancouver	1,529	8	.5	8
Columbia	52	1	1.9	1
Cowlitz	1,254	18	1.4	21
Kelso	225	6	2.7	8
Longview	531	8	1.5	9
Douglas	349	3	.9	3
Ferry	77	2	2.6	2
Franklin	778	16	2.1	19
Pasco	518	9	1.7	10
Garfield	12			
Grant	892	13	1.5	16
Moses Lake	199	1	.5	1
Grays Harbor	958	26	2.7	31
Aberdeen	293	10	3.4	11
Island	932	23	2.5	27
Oak Harbor	416	9	2.2	10
Jefferson	230	4	1.7	4
King	21,205	387	1.8	432
Auburn	635	11	1.7	12
Bellevue	975	24	2.5	26
Des Moines	142	2	1.4	3
Kent	589	6	1.0	6
Kirkland	351	3	.9	3
Mercer Island	188	2	1.1	2
Redmond	504	14	2.8	14
Renton	649	10	1.5	10
Seattle	7,020	139	2.0	160
Kitsap	2,850	99	3.5	116
Bremerton	1,074	38	3.5	44
Kittitas	295	2	.7	4
Ellensburg	134	1	.8	1
Klickitat	221	1	.5	1
Lewis	851	14	1.7	20
Centralia	215	3	1.4	3
Lincoln	102	3	2.9	3
Mason	443	6	1.4	6
Okanogan	543	16	3.0	18
Pacific	253	4	1.6	6
Pend Oreille	125	3	2.4	4
Pierce	9,924	301	3.0	330
Puyallup	405	6	1.5	6
Tacoma	3,334	65	2.0	72
San Juan	104			
Skagit	1,101	19	1.7	26
Anacortes	141	3	2.1	3
Mount Vernon	289	5	1.7	8
Skamania	107	2	1.9	2
Snohomish	7,371	131	1.8	153
Edmonds	459	11	2.4	13
Everett	1,585	21	1.3	26
Lynnwood	618	8	1.3	9
Mountlake Terrace	269	3	1.1	3
Spokane	5,311	63	1.2	73
Spokane (city)	2,983	34	1.1	39
Stevens	399	8	2.0	9
Thurston	2,190	45	2.1	48
Lacey	307	7	2.3	7
Olympia	616	12	2.0	13
Wahkiakum	39	1	2.6	1
Walla Walla	630	11	1.8	12
Walla Walla(city)	374	7	1.9	7
Whatcom	1,673	44	2.6	57
Bellingham	644	16	2.5	21
Whitman	405	6	1.5	7
Pullman	191	2	1.1	2
Yakima	3,554	22	.6	26
Yakima (city)	1,004	3	.3	3

[1] Total may not add up to 100% due to rounding.

[2] Individual births may have more than one malformation.

S02760A-HBI

Table 14

Live Births with Maternal Smoking by Mother's Place of Residence, Washington State 1988

County and City	Total Births	Births with Maternal Smoking		Births with No Maternal Smoking		Births with Maternal Smoking Unknown	
		Number	Percent	Number	Percent	Number	Percent
State Total	72,471	17,095	23.5	51,376	70.8	4,000	5.5
Adams	259	32	12.3	221	85.3	6	2.3
Asotin	233	7	3.0	6	2.5	220	94.4
Benton	524	87	16.6	405	77.2	32	6.1
Kennewick	814	197	24.2	582	71.4	35	4.2
Richland	410	71	17.3	304	74.1	35	8.5
Chelan	491	59	12.0	427	86.9	5	1.0
Wenatchee	341	48	14.0	288	84.4	5	1.4
Clallam	460	136	29.5	316	68.6	8	1.7
Port Angeles	244	67	27.4	175	71.7	2	.8
Clark	1,936	344	17.7	839	43.3	753	38.8
Vancouver	1,529	409	26.7	590	38.5	530	34.6
Columbia	52	8	15.3	42	80.7	2	3.8
Cowlitz	498	155	31.1	308	61.8	35	7.0
Kelso	225	90	40.0	122	54.2	13	5.7
Longview	531	190	35.7	313	58.9	28	5.2
Douglas	349	37	10.6	311	89.1	1	.2
Ferry	77	23	29.8	51	66.2	3	3.8
Franklin	260	29	11.1	221	85.0	10	3.8
Pasco	518	90	17.3	396	76.4	32	6.1
Garfield	12			4	33.3	8	66.6
Grant	693	155	22.3	532	76.7	6	.8
Moses Lake	199	54	27.1	145	72.8		
Grays Harbor	665	246	36.9	400	60.1	19	2.8
Aberdeen	293	112	38.2	172	58.7	9	3.0
Island	516	130	25.1	381	73.8	5	.9
Oak Harbor	416	116	27.8	296	71.1	4	.9
Jefferson	230	59	25.6	168	73.0	3	1.3
King	10,152	1,901	18.7	7,854	77.3	397	3.9
Auburn	635	193	30.3	408	64.2	34	5.3
Bellevue	975	105	10.7	846	86.7	24	2.4
Des Moines	142	42	29.5	94	66.1	6	4.2
Kent	589	152	25.8	402	68.2	35	5.9
Kirkland	351	65	18.5	272	77.4	14	3.9
Mercer Island	188	11	5.8	173	92.0	4	2.1
Redmond	504	66	13.0	422	83.7	16	3.1
Renton	649	136	20.9	491	75.6	22	3.3
Seattle	7,020	1,227	17.4	5,296	75.4	497	7.0
Kitsap	1,776	401	22.5	1,348	75.9	27	1.5
Bremerton	1,074	316	29.4	741	68.9	17	1.5
Kittitas	161	34	21.1	122	75.7	5	3.1
Ellensburg	134	31	23.1	101	75.3	2	1.4
Klickitat	221	62	28.0	85	38.4	74	33.4
Lewis	636	179	28.1	430	67.6	27	4.2
Centralia	215	73	33.9	134	62.3	8	3.7
Lincoln	102	13	12.7	86	84.3	3	2.9
Mason	443	140	31.6	289	65.2	14	3.1
Okanogan	543	149	27.4	342	62.9	52	9.5
Pacific	253	54	21.3	97	38.3	102	40.3
Pend Oreille	125	50	40.0	60	48.0	15	12.0
Pierce	6,185	1,605	25.9	4,462	72.1	118	1.9
Puyallup	405	109	26.9	288	71.1	8	1.9
Tacoma	3,334	1,048	31.4	2,228	66.8	58	1.7
San Juan	104	23	22.1	79	75.9	2	1.9
Skagit	671	180	26.8	482	71.8	9	1.3
Anacortes	141	29	20.5	109	77.3	3	2.1
Mount Vernon	289	75	25.9	211	73.0	3	1.0
Skamania	107	25	23.3	22	20.5	60	56.0
Snohomish	4,440	1,037	23.3	3,291	74.1	112	2.5
Edmonds	459	114	24.8	325	70.8	20	4.3
Everett	1,585	538	33.9	1,027	64.7	20	1.2
Lynnwood	618	143	23.1	459	74.2	16	2.5
Mountlake Terrace	269	83	30.8	182	67.6	4	1.4
Spokane	2,328	593	25.4	1,706	73.2	29	1.2
Spokane (city)	2,983	955	32.0	1,998	66.9	30	1.0
Stevens	399	126	31.5	267	66.9	6	1.5
Thurston	1,267	353	27.8	867	68.4	47	3.7
Lacey	307	77	25.0	223	72.6	7	2.2
Olympia	616	168	27.2	435	70.6	13	2.1
Wahkiakum	39	14	35.8	16	41.0	9	23.0
Walla Walla	256	42	16.4	206	80.4	8	3.1
Walla Walla (city)	374	99	26.4	271	72.4	4	1.0
Whatcom	1,029	227	22.0	745	72.4	57	5.5
Bellingham	644	159	24.6	452	70.1	33	5.1
Whitman	214	42	19.6	148	69.1	24	11.2
Pullman	191	11	5.7	161	84.2	19	9.9
Yakima	2,550	534	20.9	1,957	76.7	59	2.3
Yakima (city)	1,004	335	33.3	651	64.8	18	1.7

S02670A-HBI

Table 15

Live Births to Single Mothers by Place of Residence by Age of Mother, Washington State 1988

County and City	All Ages	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Total	16,135	93	2,009	2,988	5,571	3,222	1,541	583	96	5	27
Adams	47		7	10	21	5	2	1	1		
Asotin	99	1	7	28	46	11	5	1			
Benton	395	1	51	76	138	78	36	13	2		
Kennewick	224		29	39	81	45	22	6	2		
Richland	73		9	16	18	18	5	7			
Chelan	185	3	18	26	84	30	17	5	1		1
Wenatchee	100	3	13	13	41	17	10	1	1		1
Clallam	192	1	14	41	72	39	17	7	1		
Port Angeles	67		4	16	19	14	12	2			
Clark	841	4	101	174	311	158	67	25	1		
Vancouver	482	2	46	97	185	99	38	14	1		
Columbia	10		1	3	5			1			
Cowlitz	395	8	49	81	147	81	23	6			
Kelso	103	3	8	22	49	14	7				
Longview	183	5	29	34	63	39	8	5			
Douglas	67		9	9	26	14	8		1		
Ferry	28		4	2	12	4	3	3			
Franklin	223	3	39	37	70	52	16	5			1
Pasco	184	3	32	31	61	40	12	5			
Garfield	1		1								
Grant	205	1	39	37	62	44	13	8	1		
Moses Lake	52	1	10	6	19	10	3	3			
Grays Harbor	297		47	52	110	49	26	11	2		
Aberdeen	97		16	14	42	13	5	5	2		
Island	75		7	15	26	18	7	2			
Oak Harbor	29		1	6	11	11					
Jefferson	43		4	8	13	9	5	4			
King	4,118	17	472	661	1,308	902	499	195	42	1	21
Auburn	204	3	21	50	74	38	14	2	1		1
Bellevue	120		6	17	37	35	19	4	2		
Des Moines	32		3	5	9	9	4	1	1		
Kent	122		9	16	51	28	14	3	1		
Kirkland	56		6	8	22	13	5	1			1
Mercer Island	5		2		2	1					
Redmond	58		4	10	18	9	13	1	1		2
Renton	134		15	19	52	29	13	4	1		1
Seattle	1,840	8	226	258	545	387	253	129	24	1	9
Kitsap	514	1	76	113	156	93	48	22	5		
Bremerton	231	1	34	49	74	42	15	15	1		
Kittitas	56	1	5	6	26	11	6		1		
Ellensburg	34	1	3	4	16	8	1		1		
Klickitat	63	2	3	18	19	13	4	4			
Lewis	206	1	28	41	88	31	12	5			
Centralia	72		8	16	29	14	5				
Lincoln	11			2	5	3		1			
Mason	132	2	17	29	39	28	14	3			
Okanogan	189		27	37	58	40	21	6			
Pacific	71		10	10	26	11	9	4	1		
Pend Oreille	46		6	12	14	8	6				
Pierce	2,401	10	291	463	848	468	221	84	12	3	1
Puyallup	86		11	13	35	15	6	5	1		
Tacoma	1,176	5	149	218	405	227	115	46	8	3	
San Juan	18		1	1	2	7	4	3			
Skagit	258	1	34	56	85	52	23	7			
Anacortes	29		4	4	7	9	3	2			
Mount Vernon	66		5	18	25	13	4	1			
Skamania	25		5	3	11	3	1	1	1		
Snohomish	1,373	4	144	262	511	293	113	41	3	1	1
Edmonds	74		5	11	26	15	13	4			
Everett	444	2	41	82	183	92	33	9	1		1
Lynnwood	108		6	24	43	20	8	6	1		
Mountlake Terrace	53		9	13	13	10	5	3			
Spokane	1,253	6	164	265	441	250	86	35	6		
Spokane (city)	863	2	109	180	317	165	61	25	4		
Stevens	112		16	18	34	26	13	4	1		
Thurston	467	5	60	86	145	96	48	20	6		1
Lacey	69		16	14	20	12	3	2	1		1
Olympia	152	3	21	24	49	25	22	7	1		
Wahkiakum	8			1	3	1		3			
Walla Walla	149	2	23	28	46	30	17	2	1		
Walla Walla(city)	104	2	14	23	34	20	9	1	1		
Whatcom	329	4	48	49	114	64	36	12	1		1
Bellingham	150	2	18	23	51	27	19	9			1
Whitman	39		2	10	19	5	3				
Pullman	17		1	4	9	2	1				
Yakima	1,194	15	179	218	430	195	112	39	6		
Yakima (city)	375	5	49	69	153	55	30	12	2		

Table 16

Live Births by Institutions by Place of Occurrence, Washington State 1988

County and City	Total	General Hospital	Birth Center	Federal Facility	Home	Born On Arrival	Other and Not Stated
State Totals	71,397	65,571	241	4,004	1,289	72	220
Adams	287	287					
Asotin	1				1		
Benton	2,039	2,029			10		
Kennewick	740	735			5		
Richland	956	952			4		
Chelan	1,199	1,176			21	1	1
Wenatchee	1,106	1,101			4	1	
Clallam	710	687			22		1
Port Angeles	622	610			11		1
Clark	2,318	2,264			50	2	2
Vancouver	2,304	2,263			38	2	1
Columbia	1				1		
Cowlitz	1,347	1,328			18	1	
Kelso	2				2		
Longview	1,339	1,327			11	1	
Douglas	6				6		
Ferry	36	33			3		
Franklin	658	654			2		2
Pasco	655	654			1		
Garfield							
Grant	702	692			7	3	
Moses Lake	597	594			1	2	
Grays Harbor	670	653			15	1	1
Aberdeen	659	653			5	1	
Island	792	376		394	20	2	
Oak Harbor	25	18			6	1	
Jefferson	177	158			18	1	
King	23,939	23,487	14		356	27	55
Auburn	605	592			12	1	
Bellevue	2,254	2,236			16	2	
Des moines	1				1		
Kent	22	1			21		
Kirkland	1,965	1,918			18		29
Mercer island	5				5		
Redmond	1,463	1,447			13	3	
Renton	2,798	2,785			11	2	
Seattle	13,661	13,411	14		198	16	22
Kitsap	2,495	1,879		557	49	5	5
Bremerton	1,897	1,879			16	2	
Kittitas	274	270			2	1	1
Ellensburg	271	269			1	1	
Klickitat	224	223			1		
Lewis	898	830			68		
Centralia	646	637			9		
Lincoln	9	9					
Mason	225	211			14		
Okanogan	527	507			19		1
Pacific	124	116			7		1
Pend Oreille	58	55			2		1
Pierce	10,560	7,677	80	2,628	122	7	46
Puyallup	1,356	1,344			12		
Tacoma	6,478	6,333	80		58	6	1
San Juan	9				7		2
Skagit	1,385	1,207	144		31	1	2
Anacortes	192	181			11		
Mount Vernon	885	733	144		7		1
Skamania	1				1		
Snohomish	5,067	4,839	2		202	3	21
Edmonds	1,548	1,531			17		
Everett	2,916	2,880			33	3	
Lynnwood	24	1			21		2
Mountlake Terrace	8				8		
Spokane	6,082	5,556	1	425	79	13	8
Spokane (city)	5,612	5,524	1		67	13	7
Stevens	243	237			6		
Thurston	2,079	1,949			66		64
Lacey	4				4		
Olympia	2,058	1,949			46		63
Wahkiakum	1				1		
Walla Walla	885	871			14		
Walla Walla (city)	876	868			8		
Whatcom	1,598	1,551			42	1	4
Bellingham	1,580	1,551			27	1	1
Whitman	365	364			1		
Pullman	353	353					
Yakima	3,406	3,396			5	3	2
Yakima (city)	2,544	2,540			2	1	1

MORTALITY

Table 1

Deaths in Washington State by Selected Topics, 1988

A. Residents, Sex and Race

	Total	Male	Female	Unk
Total	36,299	18,963	17,333	3
White	34,432	17,846	16,585	1
African-American	818	497	320	1
Native American	406	223	183	
Japanese	78	43	35	
Chinese	89	57	32	
Filipino	132	102	30	
Other Asian	301	173	128	
Other	1	1		
Unknown	42	21	20	1
Hispanic[1]	464	304	160	

B. Residents, Infant Deaths by Race

Total	652
White	540
African-American	58
Native American	27
Japanese	1
Chinese	2
Filipino	2
Other Asian	19
Other	
Unknown	3
Hispanic[1]	33

C. Residents, Age Group by Sex

	Total	Male	Female	Unk
Total	36,299	18,963	17,333	3
Under 1	652	358	294	
1 - 4	139	87	52	
5 - 14	154	101	53	
15 - 19	309	222	87	
20 - 24	324	263	61	
25 - 34	982	718	264	
35 - 44	1,245	849	396	
45 - 54	1,794	1,106	688	
55 - 64	4,187	2,452	1,735	
65 - 74	8,339	4,959	3,379	1
75 - 84	9,993	5,132	4,860	1
85 - 94	6,755	2,355	4,400	
95 & Over	1,418	355	1,063	
Unknown	8	6	1	1

D. Residents, Life Expectancy by Age Group[2]

Age Group	Life Expectancy	Standard Deviation
0	76.3	.073
1-4	76.0	.068
5-9	72.1	.067
10-14	67.2	.067
15-19	62.3	.066
20-24	57.6	.064
25-29	52.9	.063
30-34	48.2	.062
35-39	43.4	.061
40-44	38.7	.060
45-49	34.1	.059
50-54	29.6	.057
55-59	25.3	.055
60-64	21.2	.051
65-69	17.6	.048
70-74	14.2	.045
75-79	11.3	.041
80-84	8.7	.035
85 +	6.7	—

[1] Hispanic numbers are not included in total sum.

[2] Life expectancy is computed for the age at the beginning of each age interval.

Table 1 (continued)
Deaths in Washington State by Selected Topics, 1988

E. Residents, Leading Causes of Death

Rank	Causes of Death with International List Numbers		Number	Percent[1]
	All Causes		36,299	100.0%
1	Diseases of the Heart	391-392.0,393-398,402,404,410-417,420-429	11,704	32.2
2	Malignant Neoplasms	140-208,230-234	8,396	23.1
3	Cerebrovascular Disease	430-438	2,823	7.8
4	Chronic Obstructive Pulmonary Diseases	490-496	1,864	5.1
5	All Accidents	E800-949	1,711	4.7
6	Influenza and Pneumonia	480-487	1,322	3.6
7	Suicide	E950-959	716	2.0
8	Diabetes Mellitus	250	671	1.8
9	Arteriosclerosis	440	481	1.3
10	Cirrhosis of Liver	571	474	1.3
	All Other Causes		6,137	16.9

F. Residence and Occurrence, Month of Death

Month	Residence	Occurrence
Total	36,299	36,423
January	3,520	3,510
February	3,254	3,246
March	3,156	3,153
April	2,964	2,988
May	2,965	2,982
June	2,893	2,902
July	2,947	2,982
August	2,826	2,845
September	2,822	2,835
October	2,912	2,942
November	2,897	2,913
December	3,143	3,125

G. Residents, Marital Status by Sex

	Total	Male	Female	Unk
Total	36,299	18,963	17,333	3
Single	3,766	2,557	1,208	1
Married	15,979	11,001	4,978	
Divorced	3,693	2,096	1,597	
Widowed	12,655	3,172	9,482	1
Unknown	206	137	68	1

H. Occurrence, Type of Place

Total	36,423
General Hospital	15,846
Nursing Home	9,463
Home	8,373
Federal Facility	977
Psychiatric Hospital	26
State Facility	5
Dead On Arrival	33
Other and Unknown	1,700

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[1] Detail may not add to 100% due to rounding.

Table 2

Deaths with Rates[1] and Percent[2] by Age Group and Sex by Leading Causes, Washington State Residents 1988

Age Group with Causes	International List Number	Total			Male			Female		
		Number	Rate	Percent[3]	Number	Rate	Percent[3]	Number	Rate	Percent[3]
All Ages										
All Causes		36,299*	795.2	100.0	18,963	833.7	100.0	17,333	756.7	100.0
Diseases of the Heart	391-2.0,393-8,402 404,410-7,420-9	11,704	256.4	32.2	6,211	273.1	32.8	5,492	239.8	31.7
Malignant Neoplasms	140-208,230-234	8,396	183.9	23.1	4,375	192.4	23.1	4,021	175.5	23.2
Cerebrovascular Disease	430-438	2,823	61.8	7.8	1,124	49.4	5.9	1,698	74.1	9.8
Chronic Obstructive Pulmonary Diseases	490-496	1,864	40.8	5.1	1,066	46.9	5.6	798	34.8	4.6
All Accidents	E800-949	1,711	37.5	4.7	1,193	52.5	6.3	518	22.6	3.0
Influenza and Pneumonia	480-487	1,322	29.0	3.6	573	25.2	3.0	749	32.7	4.3
Suicide	E950-959	716	15.7	2.0	573	25.2	3.0	143	6.2	.8
Diabetes Mellitus	250	671	14.7	1.8	309	13.6	1.6	362	15.8	2.1
Arteriosclerosis	440	481	10.5	1.3	188	8.3	1.0	293	12.8	1.7
Cirrhosis of Liver	571	474	10.4	1.3	299	13.1	1.6	175	7.6	1.0
All Other Causes		6,137	134.4	16.9	3,052	134.2	16.1	3,084	134.6	17.8
Under 1										
All Causes		652	927.1	100.0	358	989.1	100.0	294	861.3	100.0
Sudden Infant Death Syndrome	7980	180	255.9	27.6	101	279.0	28.2	79	231.4	26.9
Certain Causes Mortality In Early Infancy	760-762,764-766 770-779	146	207.6	22.4	72	198.9	20.1	74	216.8	25.2
Congenital Anomalies	740-759	141	200.5	21.6	81	223.8	22.6	60	175.8	20.4
Birth Injury, etc.	763,767-769	79	112.3	12.1	44	121.6	12.3	35	102.5	11.9
All Accidents	E800-949	20	28.4	3.1	12	33.2	3.4	8	23.4	2.7
All Other Causes		86	122.3	13.2	48	132.6	13.4	38	111.3	12.9
1 - 4										
All Causes		139	50.5	100.0	87	61.7	100.0	52	38.7	100.0
All Accidents	E800-949	51	18.5	36.7	37	26.2	42.5	14	10.4	26.9
Malignant Neoplasms	140-208,230-234	17	6.2	12.2	10	7.1	11.5	7	5.2	13.5
Congenital Anomalies	740-759	15	5.4	10.8	9	6.4	10.3	6	4.5	11.5
Homicide	E960-969	9	3.3	6.5	6	4.3	6.9	3	2.2	5.8
Meningitis	320,322	3	1.1	2.2	1	.7	1.1	2	1.5	3.8
All Other Causes		44	16.0	31.7	24	17.0	27.6	20	14.9	38.5
5 - 14										
All Causes		154	24.1	100.0	101	30.9	100.0	53	17.0	100.0
All Accidents	E800-949	71	11.1	46.1	45	13.8	44.6	26	8.3	49.1
Malignant Neoplasms	140-208,230-234	25	3.9	16.2	18	5.5	17.8	7	2.2	13.2
Suicide	E950-959	9	1.4	5.8	7	2.1	6.9	2	.6	3.8
Congenital Anomalies	740-759	7	1.1	4.5	5	1.5	5.0	2	.6	3.8
Homicide	E960-969	5	.8	3.2	4	1.2	4.0	1	.3	1.9
All Other Causes		37	5.8	24.0	22	6.7	21.8	15	4.8	28.3
15 - 19										
All Causes		309	94.5	100.0	222	132.5	100.0	87	54.6	100.0
All Accidents	E800-949	167	51.1	54.0	125	74.6	56.3	42	26.4	48.3
Suicide	E950-959	60	18.4	19.4	46	27.5	20.7	14	8.8	16.1
Homicide	E960-969	23	7.0	7.4	14	8.4	6.3	9	5.6	10.3
Malignant Neoplasms	140-208,230-234	15	4.6	4.9	9	5.4	4.1	6	3.8	6.9
Congenital Anomalies	740-759	8	2.4	2.6	5	3.0	2.3	3	1.9	3.4
All Other Causes		36	11.0	11.7	23	13.7	10.4	13	8.2	14.9
20 - 24										
All Causes		324	96.0	100.0	263	151.9	100.0	61	37.2	100.0
All Accidents	E800-949	158	46.8	48.8	130	75.1	49.4	28	17.1	45.9
Suicide	E950-959	58	17.2	17.9	50	28.9	19.0	8	4.9	13.1
Homicide	E960-969	29	8.6	9.0	26	15.0	9.9	3	1.8	4.9
Malignant Neoplasms	140-208,230-234	21	6.2	6.5	16	9.2	6.1	5	3.0	8.2
Diseases of the Heart	391-2.0,393-8,402, 404,410-7,420-9	10	3.0	3.1	9	5.2	3.4	1	.6	1.6
All other causes		48	14.2	14.8	32	18.5	12.2	16	9.7	26.2
25 - 34										
All causes		962	121.4	100.0	718	171.9	100.0	264	67.5	100.0
All Accidents	E800-949	335	41.4	34.1	260	62.3	36.2	75	19.2	28.4
Suicide	E950-959	157	19.4	16.0	132	31.6	18.4	25	6.4	9.5
Malignant Neoplasms	140-208,230-234	91	11.3	9.3	41	9.8	5.7	50	12.8	18.9
Homicide	E960-969	86	10.6	8.8	56	13.4	7.8	30	7.7	11.4
Human Immunodeficiency Virus	042-044	84	10.4	8.6	83	19.9	11.6	1	.3	.4
All 0ther Causes		229	28.3	23.3	146	35.0	20.3	83	21.2	31.4

Table 2 (Continued)

Deaths with Rates[1] and Percent[2] by Age Group and Sex by Leading Causes, Washington State Residents 1988

Age Group with Causes	International List Number	Total			Male			Female		
		Number	Rate	Percent[3]	Number	Rate	Percent[3]	Number	Rate	Percent[3]
35 - 44										
All Causes		1,245	170.2	100.0	849	230.3	100.0	396	109.2	100.0
Malignant Neoplasms	140-208, 230-234	285	39.0	22.9	126	34.2	14.8	159	43.8	40.2
All Accidents	E800-949	236	32.3	19.0	190	51.5	22.4	46	12.7	11.6
Diseases of the Heart	391-2.0, 393-8, 402, 404, 410-7 ,420-9	160	21.9	12.9	131	35.5	15.4	29	8.0	7.3
Suicide	E950-959	134	18.3	10.8	104	28.2	12.2	30	8.3	7.6
Human Immunodeficiency Virus	042-044	73	10.0	5.9	73	19.8	8.6			
All Other Causes		357	48.8	28.7	225	61.0	26.5	132	36.4	33.3
45 - 54										
All Causes		1,794	392.6	100.0	1,106	472.9	100.0	688	308.4	100.0
Malignant Neoplasms	140-208, 230-234	645	141.2	36.0	313	133.8	28.3	332	148.8	48.3
Diseases of the Heart	391-2.0, 393-8, 402, 404, 410-7, 420-9	443	97.0	24.7	331	141.5	29.9	112	50.2	16.3
All Accidents	E800-949	108	23.6	6.0	86	36.8	7.8	22	9.9	3.2
Cirrhosis of Liver	571	87	19.0	4.8	57	24.4	5.2	30	13.4	4.4
Suicide	E950-959	74	16.2	4.1	50	21.4	4.5	24	10.8	3.5
All Other Causes		437	95.6	24.4	269	115.0	24.3	168	75.3	24.4
55 - 64										
All Causes		4,187	1104.2	100.0	2,452	1337.4	100.0	1,735	885.9	100.0
Malignant Neoplasms	140-208, 230-234	1,632	430.4	39.0	825	450.0	33.6	807	412.0	46.5
Diseases of the Heart	391-2.0, 393-8, 402, 404, 410-7, 420-9	1,252	330.2	29.9	870	474.5	35.5	382	195.0	22.0
Chronic Obstructive Pulmonary Diseases	490-496	206	54.3	4.9	117	63.8	4.8	89	45.5	5.1
Cerebrovascular Disease	430-438	161	42.5	3.8	85	46.4	3.5	76	38.8	4.4
All Accidents	E800-949	130	34.3	3.1	86	46.9	3.5	44	22.5	2.5
All Other Causes		806	212.6	19.3	469	255.8	19.1	337	172.1	19.4
65 - 74										
All Causes		8,339	2613.2	100.0	4,959	3401.8	100.0	3,379	1949.4	100.0
Diseases of the Heart	391-2.0, 393-8, 402, 404, 410-7, 420-9	2,754	863.0	33.0	1,855	1272.5	37.4	898	518.1	26.6
Malignant Neoplasms	140-208, 230-234	2,650	830.4	31.8	1,460	1001.6	29.4	1,190	686.5	35.2
Chronic Obstructive Pulmonary Diseases	490-496	659	206.5	7.9	374	256.5	7.5	285	164.4	8.4
Cerebrovascular Disease	430-438	482	151.0	5.8	254	174.2	5.1	228	131.5	6.7
Diabetes Mellitus	250	198	62.0	2.4	93	63.8	1.9	105	60.6	3.1
All Other Causes		1,596	500.1	19.1	923	633.2	18.6	673	388.3	19.9
75 - 84										
All Causes		9,993	5985.8	100.0	5,132	7873.0	100.0	4,860	4775.9	100.0
Diseases of the Heart	391-2.0, 393-8, 402, 404, 410-7, 420-9	3,625	2171.4	36.3	1,889	2897.9	36.8	1,736	1706.0	35.7
Malignant Neoplasms	140-208, 230-234	2,199	1317.2	22.0	1,177	1805.6	22.9	1,022	1004.3	21.0
Cerebrovascular Disease	430-438	985	590.0	9.9	434	665.8	8.5	550	540.5	11.3
Chronic Obstructive Pulmonary Diseases	490-496	709	424.7	7.1	413	633.5	8.0	296	290.9	6.1
Influenza and Pneumonia	480-487	394	236.0	3.9	198	303.8	3.9	196	192.6	4.0
All Other Causes		2,081	1246.5	20.8	1,021	1566.3	19.9	1,060	1041.7	21.8
85 and Over										
All Causes		8,173	14862.2	100.0	2,710	17308.6	100.0	5,463	13888.4	100.0
Diseases of the Heart	391-2.0, 393-8, 402, 404, 410-7, 420-9	3,383	6151.8	41.4	1,075	6865.9	39.7	2,308	5867.5	42.2
Cerebrovascular Disease	430-438	1,082	1967.6	13.2	287	1833.0	10.6	795	2021.1	14.6
Malignant Neoplasms	140-208, 230-234	815	1482.0	10.0	379	2420.6	14.0	436	1108.4	8.0
Influenza and Pneumonia	480-487	653	1187.4	8.0	213	1360.4	7.9	440	1118.6	8.1
Arteriosclerosis	440	264	480.1	3.2	75	479.0	2.8	189	480.5	3.5
All Other Causes		1,976	3593.2	24.2	681	4349.5	25.1	1,295	3292.2	23.7
Age Unknown										
All Causes		8		100.0	6		100.0	1		100.0
Undetermined External injuries	E980-989	3		37.5	3		50.0			
Homicide	E960-969	2		25.0	1		16.7	1		100.0
All Accidents	E800-949	2		25.0	2		33.3			
All Other Causes		1		12.5						

°Total includes 3 sex unknown.

[1] Rate per 100,000 population in each age - sex group.

[2] Percent of total deaths in each age - sex group.

[3] Detail may not add up to 100 percent due to rounding.

S00810C-HDE

Table 3

Deaths with Rates[1] by Selected Causes by Sex, Washington State Residents 1988

Causes with International List Number	Total		Male		Female		
	Number	Rate	Number	Rate	Number	Rate	Unknown
Total all causes	[36,299]	[795.2]	[18,963]	[833.7]	[17,333]	[756.7]	[3]
Infectious and Parasitic Diseases	[600]	[13.1]	[393]	[17.3]	[207]	[9.0]	
Tuberculosis (010-018, 137)	27	.6	13	.6	14	.6	
Septicemia (038)	201	4.4	87	3.8	114	5.0	
Human Immunodeficiency Virus (042-044)	214	4.7	209	9.2	5	.2	
Other (000-139)	158	3.5	84	3.7	74	3.2	
Neoplasms	[8,493]	[186.0]	[4,418]	[194.2]	[4,075]	[177.9]	
Malignant Neoplasms (140-208,230-234)	8,396	183.9	4,375	192.4	4,021	175.5	
Benign and Unspecified Neoplasms (210-229,235-239)	97	2.1	43	1.9	54	2.4	
Endocrine, Nutritional, Metabolic Diseases, and Immunity Disorders	[921]	[20.2]	[412]	[18.1]	[509]	[22.2]	
Diabetes Mellitus (250)	671	14.7	309	13.6	362	15.8	
Nutitional Deficiencies (260-269)	50	1.1	11	.5	39	1.7	
Other (240-279)	200	4.4	92	4.0	108	4.7	
Diseases of Blood and Blood-Forming Organs	[156]	[3.4]	[68]	[3.0]	[88]	[3.8]	
Anemia (280-285)	58	1.3	22	1.0	36	1.6	
Other (286-289)	98	2.1	46	2.0	52	2.3	
Mental Disorders	[559]	[12.2]	[253]	[11.1]	[306]	[13.4]	
Alcohol-Related (291,303,305)	112	2.5	83	3.6	29	1.3	
Other (290-319)	447	9.8	170	7.5	277	12.1	
Diseases of the Nervous System and Sense Organs	[918]	[20.1]	[428]	[18.8]	[490]	[21.4]	
Parkinson's Disease (332)	159	3.5	94	4.1	65	2.8	
Amyotrophic Lateral Sclerosis (335.2)	97	2.1	48	2.1	49	2.1	
Other Hereditary and Degenerative Diseases of the Central Nervous System (330-337)	424	9.3	162	7.1	262	11.4	
Multiple Sclerosis (340)	54	1.2	25	1.1	29	1.3	
Other (320-326,340-389)	184	4.0	99	4.4	85	3.7	
Diseases of the Circulatory System	[15,665]	[343.2]	[7,883]	[346.6]	[7,780]	[339.7]	[2]
Diseases of the Heart (391-392.0,393-398,402,404, 410-417,420-429)							
Chronic Rheumatic Heart Disease (391-392.0,393-398)	148	3.2	53	2.3	95	4.1	
Hypertensive Heart Disease (402)	248	5.4	90	4.0	158	6.9	
Hypertensive Heart and Renal Disease (404)	39	.9	14	.6	25	1.1	
Acute Ischemic Heart Disease (410,411)	3,459	75.8	2,025	89.0	1,434	62.6	
Chronic Ischemic Heart Disease (412-414)	4,134	90.6	2,216	97.4	1,918	83.7	
Other Heart Disease (415-417,420-429)	3,676	80.5	1,813	79.7	1,862	81.3	1
Hypertensive Disease (401-403)	149	3.3	57	2.5	92	4.0	
Cerebrovascular Disease (430-438)	2,823	61.8	1,124	49.4	1,698	74.1	1
Arteriosclerosis (440)	481	10.5	188	8.3	293	12.8	
Other (390-459)	508	11.1	303	13.3	205	8.9	
Diseases of the Respiratory System	[3,599]	[78.8]	[1,861]	[81.8]	[1,738]	[75.9]	
Chronic and Unqualified Bronchitis (490-491)	71	1.6	41	1.8	30	1.3	
Emphysema (492)	304	6.7	184	8.1	120	5.2	
Asthma (493)	88	1.9	24	1.1	64	2.8	
Other Chronic Obstructive Pulmonary Diseases (494-496)	1,401	30.7	817	35.9	584	25.5	
Pneumonia (480-486)	1,242	27.2	546	24.0	696	30.4	
Influenza (488)	80	1.8	27	1.2	53	2.3	
Other (460-478,500-519)	413	9.0	222	9.8	191	8.3	

[1] Rates per 100,000 estimated population.

Table 3 (Continued)

Deaths with Rates[1] by Selected Causes by Sex, Washinton State Residents 1988

Cause with International List Number	Total		Male		Female		Unknown
	Number	Rate	Number	Rate	Number	Rate	Number
Diseases of the Digestive System	[1,325]	[29.0]	[653]	[28.7]	[672]	[29.3]	
Ulcer of Stomach and Duodenum (531-533)	122	2.7	60	2.6	62	2.7	
Hernia and Intestinal Obstruction (550-553,560)	113	2.5	36	1.6	77	3.4	
Cirrhosis of the Liver (571)	474	10.4	299	13.1	175	7.6	
Cholelithiasis, Cholecystitis, and Cholangitis (574-576)	73	1.6	28	1.2	45	2.0	
Other (520-579)	543	11.9	230	10.1	313	13.7	
Diseases of the Genitourinary System	[362]	[7.9]	[148]	[6.5]	[214]	[9.3]	
Nephritis, Nephrotic Syndrome, and Nephrosis (580-589)	186	4.1	85	3.7	101	4.4	
Other (590-629)	176	3.9	63	2.8	113	4.9	
Complications of Pregnancy, Childbirth, and the Puerperium (630-676)	[1]				[1]		
Diseases of the Skin and Subcutaneous Tissue (680-709)	[20]	[.4]	[6]	[.3]	[14]	[.6]	
Diseases of the Musculoskeletal System and Connective Tissue (710-739)	[127]	[2.8]	[31]	[1.4]	[96]	[4.2]	
Congenital Anomalies (740-759)	[233]	[5.1]	[127]	[5.6]	[106]	[4.6]	
Birth Injuries, Difficult Labor, and Other Anoxic and Hypoxic Conditions (763,767-769)	[82]	[1.8]	[45]	[2.0]	[37]	[1.6]	
Other Causes of Mortality in Early Infancy (760-762,764-766,770-779)	[148]	[3.2]	[72]	[3.2]	[76]	[3.3]	
Symptoms, signs, and Other Ill-Defined Conditions	[291]	[6.4]	[144]	[6.3]	[146]	[6.4]	[1]
Sudden Infant Death Syndrome (798.0-798.1)	195	4.3	106	4.7	89	3.9	
Other (780-799)	96	2.1	38	1.7	57	2.5	
Accidents	[1,711]	[37.5]	[1,193]	[52.5]	[518]	[22.6]	
Motor Vehicle (E810-825,E9290)	879	19.3	626	27.5	253	11.0	
Water Transport (E830-838)	27	.6	27	1.2			
Air and Space Transport (E840-845)	35	.8	35	1.5			
Accidental Poisoning (E850-869,E9292)	124	2.7	86	3.8	38	1.7	
Falls (E880-888, E9293)	227	5.0	127	5.6	100	4.4	
Fire (E890-899,E9294)	67	1.5	41	1.8	26	1.1	
Accidental Drowning (E910)	83	1.8	68	3.0	15	.7	
Other (E800-949)	269	5.9	183	8.0	86	3.8	
Suicide	[716]	[15.7]	[573]	[25.2]	[143]	[6.2]	
Firearms and Explosives (E955)	399	8.7	351	15.4	48	2.1	
Other (E950-954,E956-959)	317	6.9	222	9.8	95	4.1	
Homicide	[271]	[5.9]	[183]	[8.0]	[88]	[3.8]	
Firearms and Explosives (E965)	148	3.2	110	4.8	38	1.7	
Other (E960-964,E966-969)	123	2.7	73	3.2	50	2.2	
Legal Intervention (E979-978)	[5]	[.1]	[5]	[.2]			
Undetermined External injuries (E980-989)	[96]	[2.1]	[67]	[2.9]	[29]	[1.3]	
Injury Resulting from Operations of War (E990-999)							

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[1] Rates per 100,000 estimated population.

Table 4

Deaths Due to Malignant Neoplasm by Primary Site with Rates[1] by Sex, Washington State Residents 1988

Cause with International List Number	Total[2]		Male		Female	
	Number	Rate	Number	Rate	Number	Rate
Total All Causes	[8,396]	[183.9]	[4,375]	[192.4]	[4,021]	[175.5]
Lip, Oral Cavity, and Pharynx (140-149,230.0)	[116]	[2.5]	[65]	[2.9]	[51]	[2.2]
Digestive Organs and Peritoneum (150-159,230.1230.9)	[1,968]	[43.1]	[1,033]	[45.4]	[935]	[40.8]
Esophagus (150,230.1)	133	2.9	85	3.7	48	2.1
Stomach (151,230.2)	233	5.1	143	6.3	90	3.9
Small Intestine, including Duodenum (152)	22	.5	11	.5	11	.5
Colon (153,230.3)	750	16.4	377	16.6	373	16.3
Rectum (154,230.4-230.6)	115	2.5	66	2.9	49	2.1
Liver and Intrahepatic Ducts (155,230.8)	129	2.8	85	3.7	44	1.9
Gallbladder and Extrahepatic Bile Ducts (156)	67	1.5	31	1.4	36	1.6
Pancreas (157)	455	10.0	211	9.3	244	10.7
Retroperitoneum and Peritoneum (158)	7	.2	3	.1	4	.2
Other and Ill-defined Sites (159,230.7,230.9)	57	1.2	21	.9	36	1.6
Respiratory and Intrathoracic Organs (160-165,231)	[2,472]	[54.2]	[1,527]	[67.1]	[945]	[41.3]
Lung (162,231.1,231.2)	2,380	52.1	1,458	64.1	922	40.3
Other and Ill-defined Sites (160-161,163-165 231.0,231.8,231.9)	92	2.0	69	3.0	23	1.0
Bone, Connective Tissue, Skin and Breast (170-175, 232,233.0)	[1,001]	[21.9]	[124]	[5.5]	[877]	[38.3]
Bone and Articular Cartilage (170)	21	.5	8	.4	13	.6
Connective Tissue and Other Soft Tissue (171)	54	1.2	25	1.1	29	1.3
Skin (172-173,232)	130	2.8	84	3.7	46	2.0
Breast (174,175,233.0)	796	17.4	7	.3	789	34.4
Genital Organs (179-187,233.1-233.6)	[988]	[21.6]	[555]	[24.4]	[433]	[18.9]
Urinary Organs (188-189,233.7-233.9)	[336]	[7.4]	[229]	[10.1]	[107]	[4.7]
Brain (191)	[247]	[5.4]	[144]	[6.3]	[103]	[4.5]
Other and Ill-Defined Sites (190,192-199,234)	[472]	[10.3]	[247]	[10.9]	[225]	[9.8]
Lymphatic and Hematopoietic Tissue (200-208)	[796]	[17.4]	[451]	[19.8]	[345]	[15.1]
Lymphosarcoma (200)	127	2.8	62	2.7	65	2.8
Hodgkins Disease (201)	31	.7	15	.7	16	.7
Lymphoid and Histiocytic Tissue (202)	164	3.6	89	3.9	75	3.3
Multiple Myeloma and Immunoproliferative Tissue (203)	162	3.5	96	4.2	66	2.9
Lymphoid Leukemia (204)	91	2.0	56	2.5	35	1.5
Myeloid Leukemia (205)	158	3.5	104	4.6	54	2.4
Monocytic Leukemia (206)	11	.2	5	.2	6	.3
Other and Unspecified Leukemia (207-208)	52	1.1	24	1.1	28	1.2

[1] Rates per 100,000 estimated population.
[2] Group totals are shown in brackets.

Table 5

Deaths by Non-Transport Causes by Place of Accident, Washington State Residents 1988

Cause of Death	Total	Home	Nursing Home	Agriculture	Industry	Prison	Public	Unknown
State Total	742	323	52	19	29		184	135
Poisoning by Drugs, Medicaments and Biologicals (E850-E858)	96	66					15	15
Poisoning by Other Solid and Liquid Substances, Gases and Vapors (E860-E869)	27	12	1	1			8	5
Misadventures and Abnormal Reactions Due to Surgical and Medical Care (E870-E879)	66	1	2				15	48
Falls (E880-E888)	222	101	38	1	10		46	26
Falls on Stairs and Ladders (E880,E881)	23	18			1		4	
Falls from One Level to Another (E882-E884)	43	11	6		9		17	
Falls on Same Level (E885,E886)	10	4	1	1			3	1
Other and unspecified falls (E887,E888)	146	68	31				22	25
Fire (E890-E899)	67	65					2	
Natural and Environmental Factors (E900-E909)	17	3		1			8	5
Drowning, Excluding Submersion Following Boating Accidents (E910)	83	23			2		57	1
Inhalation and Ingestion of Food or Other Object Causing Suffocation and Obstruction (E911,E912)	38	7	7				5	19
Mechanical Suffocation (E913)	21	14	1		2		4	
Foreign Body Entering Other Orifice (E914,E915)								
Struck By, Against or Between Objects (E916-E918)	40	8		10	9		12	1
Machinery (E919,E920)	13	6		4	3			
Explosion and Explosive Material (E921,E923)	3	2			1			
Firearms (E922)	14	8					4	2
Hot substance, Corrosive Liquid and Steam (E924)								
Electricity (E925)	6	2		2	1		1	
Other and Unspecified Non-Transport Accidents (E926-E949)	29	5	3		1		7	13

Table 6

Deaths with Rates[1] by Place of Residence and Occurrence, Washington State 1988

County and City	Residence		Occurrence	
	Total	Rate	Total	Rate
State Total	36,299	8.0	36,423	8.0
Adams	111	7.9	112	8.0
Asotin	152	8.7	129	7.4
Benton	672	6.5	591	5.7
Kennewick	257	6.9	243	6.5
Richland	245	8.1	270	9.0
Chelan	523	10.5	637	12.8
Wenatchee	279	14.8	487	25.8
Clallam	547	10.1	514	9.4
Port Angeles	200	11.5	327	18.8
Clark	1,586	7.4	1,340	6.2
Vancouver	573	13.2	1,130	26.1
Columbia	62	15.1	46	11.2
Cowlitz	773	9.6	789	9.8
Kelso	130	11.9	46	4.2
Longview	373	12.6	690	23.3
Douglas	195	8.1	88	3.7
Ferry	35	5.7	28	4.6
Franklin	255	7.2	244	6.9
Pasco	185	10.0	226	12.3
Garfield	28	11.7	24	10.0
Grant	413	7.9	325	6.2
Moses Lake	114	10.7	145	13.6
Grays Harbor	746	11.8	631	10.0
Aberdeen	208	12.1	398	23.2
Island	398	7.5	294	5.5
Oak Harbor	77	5.3	56	3.9
Jefferson	197	10.6	158	8.5
King	10,533	7.4	11,521	8.1
Auburn	272	8.8	350	11.4
Bellevue	486	5.7	536	6.3
Des Moines	159	11.3	230	16.3
Kent	172	5.3	154	4.8
Kirkland	187	5.2	406	11.3
Mercer Island	124	6.0	80	3.9
Redmond	153	4.8	270	8.5
Renton	297	8.0	635	17.2
Seattle	5,197	10.5	7,965	16.1
Kitsap	1,282	7.2	1,172	6.6
Bremerton	395	10.7	746	20.1
Kittitas	202	8.1	218	8.7
Ellensburg	92	8.0	155	13.5
Klickitat	154	9.3	121	7.3
Lewis	576	10.0	501	8.7
Centralia	193	16.3	317	26.8
Lincoln	124	12.8	94	9.7
Mason	336	9.1	255	6.9
Okanogan	348	11.0	321	10.1
Pacific	248	14.1	188	10.7
Pend Oreille	97	11.0	54	6.1
Pierce	4,221	7.7	4,400	8.0
Puyallup	272	13.1	716	34.4
Tacoma	1,896	11.7	3,018	18.7
San Juan	85	8.9	54	5.6
Skagit	714	10.1	760	10.7
Anacortes	111	10.8	162	15.7
Mount Vernon	171	11.7	327	22.4
Skamania	43	5.4	29	3.6
Snohomish	2,816	6.9	2,489	6.1
Edmonds	298	10.5	449	15.8
Everett	661	10.9	1,042	17.1
Lynnwood	191	7.5	166	6.5
Mountlake Terrace	94	5.8	41	2.5
Spokane	3,057	8.6	3,587	10.1
Spokane (city)	1,956	11.5	3,344	19.6
Stevens	250	8.3	189	6.3
Thurston	1,173	7.9	1,166	7.8
Lacey	199	12.1	168	10.3
Olympia	416	13.7	903	29.8
Wahkiakum	28	8.0	25	7.1
Walla Walla	523	10.8	628	13.0
Walla Walla (city)	367	14.4	565	22.2
Whatcom	919	7.7	946	7.9
Bellingham	481	10.3	730	15.7
Whitman	215	5.5	157	4.0
Pullman	53	2.4	56	2.5
Yakima	1,662	8.9	1,598	8.6
Yakima (city)	643	13.0	1,128	22.8

[1] Rates per 1,000 population.

Table 7

Deaths by Sex and Race by Place of Residence, Washington State 1988

County and City	Total	Male	Female	Unk	White	African-American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unk	Hispanic[1]
State Total	36,299	18,963	17,333	3	34,432	818	406	78	89	132	301	1	42	464
Adams	111	59	52		110			1						8
Asotin	152	79	73		151		1							1
Benton	672	368	304		651	4	2	2	1		2			14
Kennewick	257	156	101		252	1	2				2			5
Richland	245	122	123		240	2		2	1					6
Chelan	523	264	259		516	1	3	1	1		1			12
Wenatchee	279	123	156		276	1	1	1						5
Clallam	547	291	256		528		16	2			1			1
Port Angeles	200	103	97		197		2	1						
Clark	1,586	822	764		1,559	7	5	1	4	3	6		1	13
Vancouver	573	272	301		559	5	3		3	2	1			5
Columbia	62	29	33		62									1
Cowlitz	773	393	380		768	1	1		1		2			3
Kelso	130	67	63		129		1							2
Longview	373	183	190		370	1			1		1			1
Douglas	195	109	86		194	1								2
Ferry	35	25	10		27		8							
Franklin	255	148	107		232	19	1		1		1		1	16
Pasco	185	109	76		163	18	1		1		1		1	14
Garfield	28	13	15		28									
Grant	413	256	157		404	4	1	1			2		1	31
Moses Lake	114	70	44		111	2							1	5
Grays Harbor	746	426	320		716	1	22	1		2	3		1	4
Aberdeen	208	115	93		202		3			2	1			
Island	398	216	182		390		2	1	1	3			1	1
Oak Harbor	77	33	44		75			1	1					1
Jefferson	197	119	78		193	1	3							1
King	10,533	5,368	5,165		9,571	486	84	41	66	90	189	1	5	99
Auburn	272	144	128		260	2	7	1		1	1			2
Bellevue	486	235	251		461	6	1	3	4	1	10			3
Des Moines	159	70	89		152	3			1	2	1			
Kent	172	90	82		163	4		2		1	2			1
Kirkland	187	92	95		183	2					2			1
Mercer Island	124	57	67		119				2	1	2			
Redmond	153	78	75		149		2				2			1
Renton	297	150	147		281	9	3	1	2	1				2
Seattle	5,197	2,616	2,581		4,457	416	48	25	51	65	131	1	3	60
Kitsap	1,282	668	614		1,235	16	8	1	2	9	10		1	7
Bremerton	395	183	212		375	10	2		1	3	4			3
Kittitas	202	110	92		201								1	1
Ellensburg	92	50	42		91								1	1
Klickitat	154	89	65		149		5							3
Lewis	576	294	282		574		1						1	4
Centralia	193	85	108		193									1
Lincoln	124	70	54		123		1							1
Mason	336	201	135		327	2	6				1			6
Okanogan	348	201	147		319	1	26						2	12
Pacific	248	143	104	1	242	1	2				2		1	
Pend Oreille	97	54	43		92		3	1					1	
Pierce	4,221	2,232	1,989		3,914	186	36	18	2	8	51		6	53
Puyallup	272	146	126		265	1	6							1
Tacoma	1,896	964	932		1,707	125	16	7	1	6	30		4	30
San Juan	85	44	41		85									
Skagit	714	366	348		697	1	12		3		1			8
Anacortes	111	53	58		110		1							2
Mount Vernon	171	80	91		168		1		2					2
Skamania	43	22	21		39		4							
Snohomish	2,816	1,496	1,320		2,749	17	24		4	7	11		4	19
Edmonds	298	158	140		294	1	1				2			1
Everett	661	350	311		646	5	7			1	1		1	2
Lynnwood	191	96	95		185	2	1		1		2			2
Mountlake Terrace	94	55	39		91	1					2			1
Spokane	3,057	1,530	1,525	2	2,978	36	25	6		1	5		6	9
Spokane (city)	1,956	965	989	2	1,894	32	18	5		1	3		3	5
Stevens	250	152	98		239		8						3	
Thurston	1,173	595	578		1,150	7	5		1	1	8		1	7
Lacey	199	88	111		193	2	1		1		2			4
Olympia	416	198	218		409	1	1				5			2
Wahkiakum	28	18	10		28									
Walla Walla	523	259	264		519	3					1			8
Walla Walla (city)	367	181	186		363	3					1			8
Whatcom	919	457	462		891	1	23				1		3	7
Bellingham	481	215	266		471		6				1		3	1
Whitman	215	116	99		212				1		1		1	1
Pullman	53	27	26		52						1			1
Yakima	1,662	861	801		1,559	22	68	1	1	8	2		1	111
Yakima (city)	643	308	335		618	18	3	1	1	1	1			18

[1] Total death certificates with Hispanic origin not stated were 600. Hispanic numbers are not included in total sum.

Table 8

Deaths by Age Group by Place of Residence, Washington State 1988

County and City	Total	Under 1	1-4	5-14	15-19	20-24	25-34	35-44	45-54	55-64	65-74	75-84	85 and Over	Age Unk
State Total	36,299	652	139	154	309	324	982	1,245	1,794	4,187	8,339	9,993	8,173	8
Adams	111	2	1	1	4		4	1	6	13	26	28	25	
Asotin	152	4		1	1	1			7	21	35	45	37	
Benton	672	10	2	4	3	4	14	31	47	89	180	169	119	
Kennewick	257	4	2	1	1	1	3	9	19	33	66	70	48	
Richland	245	4		1	1	2	6	9	15	30	70	68	39	
Chelan	523	9	1	3	4	6	11	20	16	59	110	141	143	
Wenatchee	279	3			2	3	4	12	6	22	55	78	94	
Clallam	547	5	2	5	1	2	8	19	17	67	139	154	128	
Port Angeles	200	2	1	2	1		3	6	5	22	45	58	55	
Clark	1,586	40	4	13	16	14	39	45	86	189	369	452	319	
Vancouver	573	11		3	3	5	17	14	27	67	141	154	131	
Columbia	62		1					3		9	16	13	20	
Cowlitz	773	10	2	6	3	8	13	20	36	80	184	235	175	1
Kelso	130	3		1	1		2	1	5	14	30	44	29	
Longview	373	3		3	1	4	4	5	18	43	82	117	93	
Douglas	195	1		1			6	8	10	29	33	60	47	
Ferry	35				2	2	2	1	6	3	8	9	2	
Franklin	255	9	1	1	2	1	11	12	12	30	55	73	47	1
Pasco	185	7	1	1	1	1	8	9	11	18	36	54	37	1
Garfield	28							1	3	1	8	6	9	
Grant	413	11	2	3	4	6	10	13	13	58	108	111	74	
Moses Lake	114	1				1	2		5	13	30	40	22	
Grays Harbor	746	12	6	2	5	5	22	14	44	91	183	211	151	
Aberdeen	208	7	2	1			6	2	16	27	48	50	49	
Island	398	7	1	2	2	5	11	14	14	35	108	130	69	
Oak Harbor	77	2				5	4	3	4	11	15	15	18	
Jefferson	197	3	1		1	2	4	5	5	25	52	61	38	
King	10,533	190	41	42	84	96	334	428	552	1,151	2,379	2,737	2,497	2
Auburn	272	6	1		4	4	5	10	15	21	61	77	68	
Bellevue	486	7	1		3	5	12	15	29	84	110	120	100	
Des Moines	159				2		5	4	1	9	24	39	75	
Kent	172	5	2	3	1	1	13	6	5	32	36	35	31	
Kirkland	187	4	1	1	4		5	7	8	19	45	44	49	
Mercer Island	124			2			2	2	8	15	27	32	36	
Redmond	153	3	2	2	3		8	6	10	17	33	35	34	
Renton	297	2		1	5	3	8	8	10	34	70	85	71	
Seattle	5,197	87	11	12	31	44	161	226	241	488	1,129	1,431	1,336	
Kitsap	1,282	21		8	13	7	30	45	81	148	292	355	282	
Bremerton	395	7		2	1	4	7	9	13	39	98	116	99	
Kittitas	202	3		3	1	1	4	5	8	25	32	65	55	
Ellensburg	92	2			1		1	1	1	9	18	27	32	
Klickitat	154	2		3	2		2	7	6	17	39	47	29	
Lewis	576	10	1	2	6	3	9	6	20	61	136	167	155	
Centralia	193			1	2	1	3		5	16	37	66	62	
Lincoln	124	1	1	2		1	2	1	3	13	28	33	39	
Mason	336	4		2	1		10	11	15	44	89	105	55	
Okanogan	348	3	5	1	3	9	10	9	11	31	83	109	74	
Pacific	248		1		2	2	3	10	7	27	68	82	45	1
Pend Oreille	97	3		1	1		4	8	4	7	28	20	21	
Pierce	4,221	97	28	11	34	52	145	162	262	569	974	1,052	833	2
Puyallup	272	9	1		1	3	13	7	15	33	59	71	60	
Tacoma	1,896	28	11	2	12	20	64	65	106	217	417	498	456	
San Juan	85		1				3	3	3	9	14	32	20	
Skagit	714	16	2	4	2	5	16	26	22	88	173	205	155	
Anacortes	111	1		1			2		5	13	27	38	26	
Mount Vernon	171	3	1			3	3	6	7	15	42	50	41	
Skamania	43					1	2	1	3	4	11	15	6	
Snohomish	2,816	61	11	7	35	21	84	94	145	384	667	754	552	1
Edmonds	298	6				3	6	10	11	40	75	80	67	
Everett	661	12	2		6	4	18	18	27	72	139	209	154	
Lynnwood	191	7			5	2	5	4	12	22	40	64	30	
Mountlake Terrace	94	4	1	1	2	1	5	4	5	18	22	20	11	
Spokane	3,057	45	7	11	23	22	61	81	143	322	685	916	741	
Spokane (city)	1,956	21	3	6	9	12	40	42	84	188	423	621	507	
Stevens	250	2	1	3	3		6	11	12	20	63	70	59	
Thurston	1,173	18	6	6	13	9	22	34	49	137	272	319	288	
Lacey	199	3	1		1	3	3	1	6	23	28	62	68	
Olympia	416	8	2	2	6	1	8	11	16	36	102	109	115	
Wahkiakum	28	1					1	1		4	5	7	9	
Walla Walla	523	7		1	6	5	12	7	22	53	102	154	154	
Walla Walla (city)	367	5		1	4	3	9	4	13	40	66	108	112	
Whatcom	919	12		1	12	4	19	33	25	70	193	302	248	
Bellingham	481	5			3	1	7	11	11	30	90	177	146	
Whitman	215	3			2	3	2	4	10	14	41	70	66	
Pullman	53	3				3	1		5	4	8	14	15	
Yakima	1,662	30	10	4	18	27	48	51	69	190	351	479	387	
Yakima (city)	643	10	4	1	7	7	14	14	19	63	130	203	171	

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Table 9

Deaths by Month of Occurrence by Place of Residence, Washington State 1988

County and City	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
State Total	36,299	3,520	3,254	3,156	2,964	2,965	2,893	2,947	2,828	2,822	2,912	2,897	3,143
Adams	111	8	15	8	11	11	13	9	11	1	5	10	9
Asotin	152	18	9	10	16	12	11	10	13	14	20	7	12
Benton	672	63	55	46	43	67	45	63	58	43	59	57	73
Kennewick	257	28	14	20	16	26	15	24	20	18	26	23	27
Richland	245	20	21	17	17	25	15	24	20	18	19	23	26
Chelan	523	28	46	39	45	40	53	36	45	45	39	57	50
Wenatchee	279	17	26	23	25	24	22	17	21	26	18	35	25
Clallam	547	49	47	55	45	53	40	49	38	41	39	54	37
Port Angeles	200	23	12	18	16	16	15	18	16	15	15	21	15
Clark	1,586	154	127	160	140	125	111	130	131	113	134	132	129
Vancouver	573	57	40	69	45	52	34	50	53	36	44	48	45
Columbia	62	2	5	3	5	7	5	6	11	3	9		6
Cowlitz	773	76	77	82	59	62	50	58	66	55	55	58	75
Kelso	130	15	14	18	7	10	7	11	12	6	12	11	7
Longview	373	34	45	44	25	28	26	25	29	28	24	23	42
Douglas	195	19	17	15	16	15	11	12	22	12	15	16	25
Ferry	35	5	2	1	4		5	3	5	3	2	1	4
Franklin	255	24	30	18	28	21	24	20	15	20	23	12	20
Pasco	185	16	24	13	22	13	16	16	9	13	19	6	18
Garfield	28	4	4	3	2	4		1		3	1	3	3
Grant	413	40	38	29	34	40	25	36	33	30	26	44	38
Moses Lake	114	11	11	10	8	9	7	9	11	7	8	13	10
Grays Harbor	746	83	68	51	77	54	61	60	50	61	57	52	72
Aberdeen	208	20	28	9	22	16	12	18	12	16	12	15	26
Island	398	44	34	31	45	35	28	36	23	35	34	27	26
Oak Harbor	77	7	6	5	14	9	5	8	4	3	8	3	5
Jefferson	197	13	7	20	17	17	18	24	14	20	17	15	15
King	10,533	1,044	941	923	828	822	845	880	784	848	865	865	888
Auburn	272	28	26	19	19	22	22	19	14	29	31	23	20
Bellevue	486	54	45	40	30	48	35	40	46	37	38	39	36
Des Moines	159	10	16	15	13	10	14	9	10	13	22	11	16
Kent	172	20	9	16	12	11	5	20	14	14	22	14	15
Kirkland	187	19	19	21	8	11	14	9	16	19	16	20	15
Mercer Island	124	19	13	12	7	10	6	8	6	9	14	10	10
Redmond	153	21	14	10	17	13	14	8	9	13	6	17	11
Renton	297	31	21	28	26	18	21	23	21	33	24	18	33
Seattle	5,197	525	465	451	423	395	400	421	373	426	426	449	443
Kitsap	1,282	130	114	134	111	106	106	108	96	89	95	88	105
Bremerton	395	43	41	45	32	34	32	27	26	28	32	21	32
Kittitas	202	17	28	14	18	12	10	19	14	18	21	16	15
Ellensburg	92	5	9	11	6	7	7	7	8	8	8	7	9
Klickitat	154	19	9	14	9	12	17	9	15	8	12	12	18
Lewis	576	52	45	44	54	62	49	47	36	48	45	44	50
Centralia	193	10	13	13	24	23	17	15	10	16	17	21	14
Lincoln	124	9	9	10	6	10	13	13	17	7	5	8	17
Mason	336	35	25	32	31	23	29	21	26	22	29	39	24
Okanogan	348	25	19	40	32	24	26	32	21	34	32	22	41
Pacific	248	28	21	16	16	17	15	18	25	27	23	19	23
Pend Oreille	97	11	14	9	6	7	10	4	4	8	11	8	5
Pierce	4,221	442	402	373	302	347	315	329	330	323	349	332	377
Puyallup	272	30	20	23	19	20	29	30	21	15	18	24	23
Tacoma	1,896	202	196	165	129	154	131	142	152	149	163	141	172
San Juan	85	6	9	11	13	6	5	6	4	5	5	13	2
Skagit	714	65	58	59	64	65	64	57	58	52	51	51	70
Anacortes	111	12	7	7	14	11	9	7	14	7	4	5	14
Mount Vernon	171	13	15	13	14	12	20	23	10	12	11	12	16
Skamania	43	4	1	4	2	3	5	4	4	5	4	3	4
Snohomish	2,816	289	217	223	236	242	231	218	218	235	217	227	263
Edmonds	298	37	24	25	21	26	27	24	29	20	23	20	22
Everett	661	77	47	50	56	49	53	46	50	54	64	52	63
Lynnwood	191	18	12	20	11	22	16	17	12	11	21	19	12
Mountlake Terrace	94	9	9	8	10	5	11	8	6	7	3	7	11
Spokane	3,057	261	301	273	240	253	272	248	246	209	253	239	262
Spokane (city)	1,956	165	197	176	166	174	180	156	146	117	158	160	161
Stevens	250	19	26	17	18	17	22	23	26	21	21	18	22
Thurston	1,173	96	116	114	105	102	96	82	80	91	96	88	107
Lacey	199	12	16	23	28	16	25	14	9	13	15	11	17
Olympia	416	29	53	41	36	35	31	26	32	26	37	33	37
Wahkiakum	28	1	2	2		3	3	2	4	3	4	3	1
Walla Walla	523	67	52	36	42	44	35	46	47	40	40	41	33
Walla Walla (city)	367	51	36	24	26	35	21	33	28	31	31	26	25
Whatcom	919	96	85	71	68	64	83	59	69	81	70	87	84
Bellingham	481	44	47	42	42	32	42	22	36	44	35	50	45
Whitman	215	17	22	13	16	14	16	24	20	20	22	18	13
Pullman	53	6	7	2	5	1	4	6	7	5	3	2	5
Yakima	1,662	155	157	153	160	147	126	145	147	129	107	111	125
Yakima (city)	643	63	71	57	55	59	53	57	59	50	37	36	46

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Table 10

Deaths with Rates[1] by Selected Disease Conditions by Place of Residence, Washington 1988

County and City	Infectious and Parasitic Diseases		Diabetes Mellitus		Alcoholism		Diseases of the Heart		Cerebrovascular Disease	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	600	13.1	671	14.7	74	1.6	11,704	256.4	2,823	61.8
Adams	1	7.1	6	42.9			34	242.9	7	50.0
Asotin	3	17.2	2	11.5	1	5.7	51	293.1	13	74.7
Benton	6	5.8	12	11.5	2	1.9	217	206.5	51	49.0
Kennewick	3	8.1	4	10.8			91	244.8	16	43.0
Richland	1	3.3	5	16.6	2	6.6	87	288.7	22	73.0
Chelan	5	10.1	3	6.0			172	346.1	43	86.5
Wenatchee	2	10.6	2	10.6			95	503.7	20	106.0
Clallam	5	9.2	5	9.2	2	3.7	182	334.6	45	82.7
Port Angeles	2	11.5	1	5.8	1	5.8	64	368.9	25	144.1
Clark	18	8.4	27	12.6	4	1.9	533	248.5	110	51.3
Vancouver	9	20.8	7	16.2	2	4.6	200	462.0	43	99.3
Columbia			1	24.4			29	707.3	5	122.0
Cowlitz	6	7.5	14	17.4			299	371.4	51	63.4
Kelso	4	36.8	4	36.8			43	395.2	13	119.5
Longview	1	3.4	5	16.9			166	561.6	22	74.4
Douglas	1	4.1	3	12.4	1	4.1	65	269.7	16	66.4
Ferry							8	131.1	3	49.2
Franklin	3	8.5	6	16.9	3	8.5	73	205.6	15	42.3
Pasco	3	16.3	4	21.7	3	16.3	52	282.1	13	70.5
Garfield							8	333.3	3	125.0
Grant	8	15.2	7	13.3	1	1.9	129	245.2	24	45.6
Moses Lake	3	28.2	3	28.2			40	375.6	10	93.9
Grays Harbor	9	14.2	13	20.5	2	3.2	252	397.5	48	75.7
Aberdeen	2	11.7	5	29.2	2	11.7	79	461.2	11	64.2
Island	5	9.4	6	11.2	2	3.7	119	222.8	27	50.6
Oak Harbor	2	13.9					23	159.6	4	27.8
Jefferson	1	5.4	3	16.1			57	306.5	16	86.0
King	279	19.7	196	13.9	14	1.0	3,310	234.1	808	57.1
Auburn	5	16.2	2	6.5			112	363.8	23	74.7
Bellevue	9	10.6	7	8.2			146	171.4	33	38.7
Des Moines	4	28.3	1	7.1			55	389.5	14	99.2
Kent	4	12.4	4	12.4			45	139.1	15	46.4
Kirkland	1	2.8	5	14.0			68	189.8	17	47.5
Mercer Island	3	14.5	2	9.7			39	188.5	10	48.3
Redmond	6	18.9	2	6.3	1	3.2	45	141.9	8	25.2
Renton	7	18.9	6	16.2	1	2.7	93	251.8	12	32.5
Seattle	179	36.1	89	17.9	9	1.8	1,608	324.3	453	91.3
Kitsap	22	12.4	30	16.9	7	3.9	399	225.0	96	54.1
Bremerton	7	18.9	14	37.8	4	10.8	128	345.5	34	91.8
Kittitas	1	4.0	5	20.0			76	304.0	14	56.0
Ellensburg			1	8.7			39	339.1	7	60.9
Klickitat	1	6.0	2	12.0			41	247.0	10	60.2
Lewis	11	19.2	14	24.4	2	3.5	194	338.0	56	97.6
Centralia	5	42.2	6	50.6	1	8.4	73	616.0	20	168.8
Lincoln	3	30.9	6	61.9			38	391.8	9	92.8
Mason	3	8.2	6	16.3			124	337.0	18	48.9
Okanogan	1	3.2	7	22.1			133	419.6	24	75.7
Pacific	2	11.4	5	28.4			91	517.0	20	113.6
Pend Oreille	4	45.5					23	261.4	11	125.0
Pierce	70	12.8	65	11.9	5	.9	1,278	233.3	328	59.9
Puyallup	5	24.0	2	9.6	1	4.8	89	427.1	14	67.2
Tacoma	31	19.2	28	17.3			604	374.2	174	107.8
San Juan	3	31.3					31	322.9	10	104.2
Skagit	5	7.1	11	15.5	1	1.4	244	344.6	60	84.7
Anacortes	1	9.7	1	9.7			31	300.4	15	145.3
Mount Vernon	2	13.7	1	6.9	1	6.9	64	438.7	14	96.0
Skamania					1	12.5	15	187.5	3	37.5
Snohomish	40	9.8	52	12.7	6	1.5	893	218.1	191	46.6
Edmonds	6	21.1	9	31.6			92	322.8	19	66.7
Everett	8	13.1	12	19.7	2	3.3	224	367.7	58	95.2
Lynnwood			3	11.8			71	279.3	12	47.2
Mountlake Terrace	2	12.3	2	12.3			25	153.5	3	18.4
Spokane	39	11.0	48	13.6	7	2.0	1,004	283.5	267	75.4
Spokane (city)	26	15.3	33	19.4	6	3.5	630	370.2	175	102.8
Stevens	3	9.9	6	19.9			78	258.3	27	89.4
Thurston	13	8.7	27	18.1	2	1.3	374	250.5	91	61.0
Lacey	1	6.1	4	24.4			70	427.4	22	134.3
Olympia	8	26.4	5	16.5			136	449.3	35	115.6
Wahkiakum							11	314.3	1	28.6
Walla Walla	2	4.1	13	26.9	1	2.1	165	341.6	48	99.4
Walla Walla (city)	1	3.9	9	35.4	1	3.9	119	467.8	35	137.8
Whatcom	13	10.9	19	16.0	2	1.7	295	247.7	81	68.0
Bellingham	6	12.9	12	25.7	2	4.3	167	358.3	52	111.6
Whitman			3	7.7			83	212.8	19	48.7
Pullman							15	67.5	4	18.0
Yakima	14	7.5	48	25.8	8	4.3	576	309.2	154	82.7
Yakima (city)	3	6.1	15	30.3	3	6.1	226	456.8	58	117.2

[1] Rates per 100,000 estimated population.

Table 11

Deaths with Rates[1] by Selected Disease Conditions by Place of Residence, Washington State 1988

County and City	General Arteriosclerosis		Influenza and Pneumonia		Chronic Obstructive Pulmonary Diseases		Cirrhosis of the Liver		Nephritis Nephrotic Syndrome Nephrosis	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	481	10.5	1,322	29.0	1,864	40.8	474	10.4	186	4.1
Adams	4	28.6	5	35.7	1	7.1	1	7.1		
Asotin	4	23.0	4	23.0	6	34.5	2	11.5		
Benton	4	3.8	18	17.3	39	37.5	15	14.4	3	2.9
Kennewick			6	16.1	16	43.0	6	16.1		
Richland	3	10.0	7	23.2	9	29.9	6	19.9	1	3.3
Chelan	6	12.1	19	38.2	23	46.3	5	10.1		
Wenatchee	2	10.6	13	68.9	17	90.1	1	5.3		
Clallam	10	18.4	15	27.6	23	42.3	9	16.5	3	5.5
Port Angeles	5	28.8	5	28.8	7	40.3	2	11.5		
Clark	19	8.9	66	30.8	83	38.7	8	3.7	2	.9
Vancouver	10	23.1	25	57.8	25	57.8	5	11.6		
Columbia			4	97.6	1	24.4	1	24.4	1	24.4
Cowlitz	5	6.2	28	34.8	39	48.4	10	12.4	6	7.5
Kelso			2	18.4	11	101.1	3	27.6	3	27.6
Longview	3	10.1	13	44.0	17	57.5	4	13.5	2	6.8
Douglas	3	12.4	4	16.6	7	29.0	1	4.1	2	8.3
Ferry			1	16.4	3	49.2				
Franklin	6	16.9	4	11.3	16	45.1	8	22.5	5	14.1
Pasco	4	21.7	4	21.7	10	54.3	8	43.4	4	21.7
Garfield	1	41.7	1	41.7	4	166.7	1	41.7		
Grant	7	13.3	17	32.3	23	43.7	6	11.4		
Moses Lake	2	18.8	2	18.8	8	75.1				
Grays Harbor	11	17.4	26	41.0	38	59.9	20	31.5	7	11.0
Aberdeen	2	11.7	5	29.2	9	52.5	6	35.0	2	11.7
Island	10	18.7	12	22.5	13	24.3	5	9.4	1	1.9
Oak Harbor			2	13.9	4	27.8			1	6.9
Jefferson	1	5.4	7	37.6	12	64.5	4	21.5	2	10.8
King	118	8.3	407	28.8	496	35.1	137	9.7	61	4.3
Auburn	3	9.7	11	35.7	17	55.2	1	3.2	3	9.7
Bellevue	5	5.9	22	25.8	21	24.7	3	3.5		
Des Moines	1	7.1	11	77.9	7	49.6	1	7.1	1	7.1
Kent	2	6.2	6	18.5	11	34.0	3	9.3		
Kirkland	1	2.8	5	14.0	18	50.3	3	8.4	1	2.8
Mercer Island	1	4.8	4	19.3	5	24.2	1	4.8		
Redmond	1	3.2	6	18.9	6	18.9	2	6.3		
Renton	5	13.5	19	51.4	23	62.3	4	10.8	5	13.5
Seattle	50	10.1	206	41.5	225	45.4	79	15.9	38	7.7
Kitsap	3	1.7	46	25.9	74	41.7	23	13.0	1	.6
Bremerton	2	5.4	23	62.1	26	70.2	7	18.9		
Kittitas	2	8.0	8	32.0	8	32.0				
Ellensburg	1	8.7	2	17.4	5	43.5				
Klickitat	2	12.0	7	42.2	9	54.2	3	18.1	1	6.0
Lewis	15	26.1	29	50.5	29	50.5	4	7.0	4	7.0
Centralia	9	75.9	9	75.9	14	118.1	1	8.4	1	8.4
Lincoln	1	10.3	4	41.2	4	41.2			2	20.6
Mason	1	2.7	9	24.5	15	40.8	4	10.9	1	2.7
Okanogan	2	6.3	7	22.1	19	59.9	5	15.8	1	3.2
Pacific	1	5.7	5	28.4	12	68.2	3	17.0	3	17.0
Pend Oreille			10	113.6	5	56.8				
Pierce	109	19.9	126	23.0	263	48.0	64	11.7	17	3.1
Puyallup	16	76.8	6	28.8	16	76.8	2	9.6	2	9.6
Tacoma	46	28.5	74	45.8	112	69.4	36	22.3	5	3.1
San Juan	2	20.8	4	41.7	2	20.8				
Skagit	4	5.6	17	24.0	30	42.4	5	7.1	2	2.8
Anacortes			7	67.8	5	48.4			1	9.7
Mount Vernon			3	20.6	6	41.1	2	13.7	1	6.9
Skamania	2	25.0			2	25.0	1	12.5		
Snohomish	35	8.5	94	23.0	148	36.1	35	8.5	20	4.9
Edmonds	3	10.5	7	24.6	17	59.6	3	10.5	4	14.0
Everett	5	8.2	22	36.1	36	59.1	6	9.8	6	9.8
Lynnwood	1	3.9	4	15.7	10	39.3	3	11.8	2	7.9
Mountlake Terrace			4	24.6	3	18.4	1	6.1		
Spokane	35	9.9	137	38.7	152	42.9	49	13.8	22	6.2
Spokane (city)	26	15.3	101	59.3	111	65.2	32	18.8	18	10.6
Stevens	2	6.6	10	33.1	17	56.3	3	9.9	1	3.3
Thurston	6	4.0	42	28.1	83	55.6	10	6.7	4	2.7
Lacey			8	48.8	11	67.2	3	18.3	1	6.1
Olympia	2	6.6	21	69.4	31	102.4	4	13.2	1	3.3
Wahkiakum	1	28.6			2	57.1	1	28.6		
Walla Walla	6	12.4	20	41.4	34	70.4	4	8.3	1	2.1
Walla Walla (city)	6	23.6	12	47.2	24	94.3	3	11.8		
Whatcom	21	17.6	51	42.8	44	36.9	7	5.9	5	4.2
Bellingham	16	34.3	22	47.2	24	51.5	3	6.4	1	2.1
Whitman	3	7.7	11	28.2	6	15.4	2	5.1		
Pullman	1	4.5	4	18.0	2	9.0	1	4.5		
Yakima	19	10.2	47	25.2	79	42.4	18	9.7	8	4.3
Yakima (city)	9	18.2	22	44.5	33	66.7	3	6.1	1	2.0

[1] Rates per 100,000 estimated population.

Table 12

Deaths Due to Malignant Neoplasm by Primary Site with Rates[1] by Place of Residence, Washington State 1988

County and City	Malignant Neoplasms Total All Sites		Lip, Oral, Cavity and Pharynx		Digestive Organs and Peritoneum		Respiratory and Intrathoracic Organs		Genital Organs	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	8,396	183.9	116	2.5	1,968	43.1	2,472	54.2	988	21.6
Adams	23	164.3			3	21.4	7	50.0	2	14.3
Asotin	33	189.7	2	11.5	11	63.2	10	57.5		
Benton	155	148.9	2	1.9	35	33.6	51	49.0	18	17.3
Kennewick	58	156.0	1	2.7	14	37.7	17	45.7	8	21.5
Richland	48	159.3	1	3.3	13	43.1	14	46.4	4	13.3
Chelan	113	227.4	1	2.0	32	64.4	38	76.5	13	26.2
Wenatchee	59	312.8	1	5.3	22	116.6	15	79.5	6	31.8
Clallam	141	259.2			34	62.5	43	79.0	14	25.7
Port Angeles	52	299.7			12	69.2	20	115.3	4	23.1
Clark	367	171.1	4	1.9	81	37.8	124	57.8	35	16.3
Vancouver	128	295.7	2	4.6	28	64.7	39	90.1	15	34.7
Columbia	10	243.9			6	146.3			1	24.4
Cowlitz	179	222.4	2	2.5	38	47.2	54	67.1	20	24.8
Kelso	28	257.4	1	9.2	8	73.5	11	101.1		
Longview	88	297.7	1	3.4	12	40.6	26	88.0	11	37.2
Douglas	43	178.4			12	49.8	15	62.2	7	29.0
Ferry	6	98.4			2	32.8	3	49.2		
Franklin	50	140.8			12	33.8	14	39.4	5	14.1
Pasco	35	189.9			9	48.8	10	54.3	4	21.7
Garfield	5	208.3			1	41.7	3	125.0	1	41.7
Grant	93	176.8	1	1.9	24	45.6	32	60.8	8	15.2
Moses Lake	26	244.1			7	65.7	8	75.1	2	18.8
Grays Harbor	153	241.3	1	1.6	44	69.4	48	75.7	22	34.7
Aberdeen	42	245.2			15	87.6	9	52.5	4	23.4
Island	110	206.0	1	1.9	30	56.2	35	65.5	9	16.9
Oak Harbor	19	131.9			3	20.8	9	62.5	2	13.9
Jefferson	56	301.1			15	80.6	10	53.8	9	48.4
King	2,428	171.7	36	2.5	568	40.2	694	49.1	276	19.5
Auburn	53	172.1	1	3.2	17	55.2	19	61.7	2	6.5
Bellevue	142	166.7			37	43.4	38	44.6	14	16.4
Des Moines	27	191.2	1	7.1	9	63.7	5	35.4	5	35.4
Kent	38	117.5			9	27.8	10	30.9	3	9.3
Kirkland	35	97.7	1	2.8	11	30.7	9	25.1	3	8.4
Mercer Island	29	140.2			5	24.2	3	14.5	5	24.2
Redmond	33	104.1			4	12.6	9	28.4	4	12.6
Renton	62	167.8			11	29.8	15	40.6	11	29.8
Seattle	1,138	229.5	16	3.2	280	56.5	320	64.5	150	30.2
Kitsap	314	177.1	3	1.7	73	41.2	102	57.5	44	24.8
Bremerton	78	210.5	1	2.7	18	48.6	26	70.2	8	21.6
Kittitas	47	188.0	2	8.0	9	36.0	12	48.0	10	40.0
Ellensburg	20	173.9			5	43.5	6	52.2	3	26.1
Klickitat	43	259.0	2	12.0	5	30.1	15	90.4	9	54.2
Lewis	116	202.1	1	1.7	30	52.3	36	62.7	11	19.2
Centralia	24	202.5			5	42.2	7	59.1	3	25.3
Lincoln	36	371.1			10	103.1	7	72.2	4	41.2
Mason	84	228.3	1	2.7	21	57.1	30	81.5	9	24.5
Okanogan	64	201.9			11	34.7	28	88.3	3	9.5
Pacific	57	323.9	1	5.7	15	85.2	15	85.2	8	45.5
Pend Oreille	19	215.9			9	102.3	4	45.5	3	34.1
Pierce	1,013	185.0	16	2.9	249	45.5	295	53.9	127	23.2
Puyallup	55	263.9	1	4.8	16	76.8	17	81.6	8	38.4
Tacoma	414	256.5	7	4.3	112	69.4	106	65.7	54	33.5
San Juan	19	197.9			3	31.3	6	62.5	1	10.4
Skagit	181	255.6			49	69.2	49	69.2	19	26.8
Anacortes	32	310.1			8	77.5	9	87.2	3	29.1
Mount Vernon	38	260.5			9	61.7	7	48.0	7	48.0
Skamania	9	112.5					3	37.5		
Snohomish	718	175.3	12	2.9	158	38.6	214	52.3	83	20.3
Edmonds	84	294.7	3	10.5	19	66.7	20	70.2	9	31.6
Everett	153	251.1	1	1.6	35	57.5	41	67.3	11	18.1
Lynnwood	43	169.2	1	3.9	8	31.5	21	82.6	4	15.7
Mountlake Terrace	29	178.0	1	6.1	6	36.8	7	43.0	6	36.8
Spokane	705	199.1	15	4.2	152	42.9	199	56.2	79	22.3
Spokane (city)	425	249.7	8	4.7	104	61.1	118	69.3	48	28.2
Stevens	49	162.3			11	36.4	13	43.0	7	23.2
Thurston	283	189.6	6	4.0	58	38.8	75	50.2	35	23.4
Lacey	33	201.5	1	6.1	6	36.6	11	67.2	3	18.3
Olympia	83	274.2	1	3.3	18	59.5	21	69.4	8	26.4
Wahkiakum	6	171.4			2	57.1	1	28.6		
Walla Walla	109	225.7	3	6.2	26	53.8	30	62.1	12	24.8
Walla Walla (city)	73	286.9	3	11.8	19	74.7	20	78.6	7	27.5
Whatcom	188	157.9	1	.8	47	39.5	46	38.6	31	26.0
Bellingham	84	180.2			24	51.5	25	53.6	17	36.5
Whitman	49	125.6	1	2.6	15	38.5	8	20.5	5	12.8
Pullman	14	63.0			1	4.5	2	9.0	3	13.5
Yakima	322	172.8	2	1.1	67	36.0	103	55.3	48	25.8
Yakima (city)	125	252.7	1	2.0	26	52.6	38	76.8	15	30.3

[1] Rates per 100,000 estimated population.

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Table 12 (Continued)

Deaths Due to Malignant Neoplasm by Primary Site with Rates[1] by Place of Residence, Washington State 1988

County and City	Urinary Organs		Skin		Breast		Leukemias and Neoplasms of the Lymphatic and Hematopoietic Tissue		Other and Unspecified Primary Sites	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	336	7.4	130	2.8	796	17.4	796	17.4	794	17.4
Adams	2	14.3			2	14.3	2	14.3	5	35.7
Asotin					2	11.5	6	34.5	2	11.5
Benton	4	3.8	3	2.9	19	18.3	14	13.4	9	8.6
Kennewick	1	2.7	2	5.4	4	10.8	7	18.8	4	10.8
Richland					9	29.9	3	10.0	4	13.3
Chelan	5	10.1			7	14.1	11	22.1	6	12.1
Wenatchee	3	15.9			3	15.9	3	15.9	6	31.8
Clallam	6	11.0	3	5.5	11	20.2	14	25.7	16	29.4
Port Angeles	2	11.5	1	5.8	5	28.8	5	28.8	3	17.3
Clark	14	6.5	5	2.3	33	15.4	34	15.9	37	17.2
Vancouver	5	11.6	2	4.6	13	30.0	10	23.1	14	32.3
Columbia	1	24.4			1	24.4	1	24.4		
Cowlitz	11	13.7	1	1.2	12	14.9	16	19.9	25	31.1
Kelso	2	18.4			1	9.2			5	46.0
Longview	5	16.9	1	3.4	9	30.4	11	37.2	12	40.6
Douglas			1	4.1	1	4.1	4	16.6	3	12.4
Ferry									1	16.4
Franklin	2	5.6			3	8.5	7	19.7	7	19.7
Pasco	1	5.4			2	10.9	5	27.1	4	21.7
Garfield										
Grant	5	9.5	1	1.9	8	15.2	6	11.4	8	15.2
Moses Lake	3	28.2	1	9.4			3	28.2	2	18.8
Grays Harbor	9	14.2	3	4.7	7	11.0	10	15.8	9	14.2
Aberdeen	4	23.4	1	5.8	1	5.8	5	29.2	3	17.5
Island	6	11.2			8	15.0	13	24.3	8	15.0
Oak Harbor					3	20.8	2	13.9		
Jefferson	9	48.4	2	10.8	5	26.9	1	5.4	5	26.9
King	105	7.4	38	2.7	232	16.4	239	16.9	240	17.0
Auburn	1	3.2	1	3.2	2	6.5	7	22.7	3	9.7
Bellevue	12	14.1	3	3.5	16	18.8	11	12.9	11	12.9
Des Moines	2	14.2					4	28.3	1	7.1
Kent	1	3.1			6	18.5	4	12.4	5	15.5
Kirkland	1	2.8			2	5.6	3	8.4	5	14.0
Mercer Island	1	4.8	1	4.8	6	29.0	6	29.0	2	9.7
Redmond	1	3.2	1	3.2	3	9.5	4	12.6	7	22.1
Renton	3	8.1	1	2.7	7	18.9	6	16.2	8	21.7
Seattle	38	7.7	15	3.0	109	22.0	104	21.0	106	21.4
Kitsap	8	4.5	6	3.4	24	13.5	24	13.5	30	16.9
Bremerton	3	8.1			4	10.8	11	29.7	7	18.9
Kittitas	1	4.0			4	16.0	6	24.0	3	12.0
Ellensburg	1	8.7					2	17.4	3	26.1
Klickitat	1	6.0	1	6.0	2	12.0	4	24.1	4	24.1
Lewis	6	10.5			13	22.6	10	17.4	9	15.7
Centralia	2	16.9			3	25.3	2	16.9	2	16.9
Lincoln					4	41.2	3	30.9	8	82.5
Mason	2	5.4	1	2.7	8	21.7	6	16.3	6	16.3
Okanogan	3	9.5	2	6.3	2	6.3	8	25.2	7	22.1
Pacific	2	11.4			5	28.4	5	28.4	6	34.1
Pend Oreille					1	11.4	1	11.4	1	11.4
Pierce	33	6.0	18	3.3	90	16.4	84	15.3	101	18.4
Puyallup	3	14.4			3	14.4	5	24.0	2	9.6
Tacoma	14	8.7	3	1.9	38	23.5	36	22.3	44	27.3
San Juan	2	20.8			2	20.8	3	31.3	2	20.8
Skagit	4	5.6			26	36.7	19	26.8	15	21.2
Anacortes	1	9.7			2	19.4	5	48.4	4	38.8
Mount Vernon	1	6.9			8	54.8	2	13.7	4	27.4
Skamania			1	12.5	2	25.0	2	25.0	1	12.5
Snohomish	29	7.1	11	2.7	85	20.8	71	17.3	55	13.4
Edmonds	8	28.1	2	7.0	9	31.6	8	28.1	6	21.1
Everett	6	9.8	4	6.6	25	41.0	18	29.5	12	19.7
Lynnwood	1	3.9	1	3.9	3	11.8	2	7.9	2	7.9
Mountlake Terrace	1	6.1	1	6.1	3	18.4	2	12.3	2	12.3
Spokane	23	6.5	16	4.5	80	22.6	74	20.9	67	18.9
Spokane (city)	16	9.4	12	7.1	45	26.4	38	22.3	36	21.2
Stevens	3	9.9	2	6.6	3	9.9	4	13.2	6	19.9
Thurston	12	8.0	9	6.0	29	19.4	28	18.8	31	20.8
Lacey			1	6.1	3	18.3	4	24.4	4	24.4
Olympia	6	19.8	2	6.6	11	36.3	7	23.1	9	29.7
Wahkiakum			1	28.6	2	57.1				
Walla Walla	3	6.2			11	22.8	12	24.8	12	24.8
Walla Walla (city)	3	11.8			5	19.7	7	27.5	9	35.4
Whatcom	10	8.4	1	.8	18	15.1	16	13.4	18	15.1
Bellingham	4	8.6			7	15.0	4	8.6	3	6.4
Whitman	1	2.6			9	23.1	4	10.3	6	15.4
Pullman	1	4.5			5	22.5	1	4.5	1	4.5
Yakima	14	7.5	4	2.1	25	13.4	34	18.3	25	13.4
Yakima (city)	4	8.1	2	4.0	13	26.3	13	26.3	13	26.3

[1] Rates per 100,000 estimated population.

Table 13

Deaths Due to Human Immunodeficiency Virus with Rates[1] by Place of Residence, Washington State 1988

County and City	Total		Male		Female		Unknown	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	214	4.7	209	4.6	5	.1		
Adams								
Asotin								
Benton	1	1.0	1	1.0				
Kennewick								
Richland								
Chelan	1	2.0	1	2.0				
Wenatchee								
Clallam								
Port Angeles								
Clark	7	3.3	6	2.8	1	.5		
Vancouver	5	11.6	5	11.6				
Columbia								
Cowlitz								
Kelso								
Longview								
Douglas								
Ferry								
Franklin								
Pasco								
Garfield								
Grant	1	1.9	1	1.9				
Moses Lake								
Grays Harbor	1	1.6	1	1.6				
Aberdeen								
Island								
Oak Harbor								
Jefferson								
King	148	10.5	147	10.4	1	.1		
Auburn								
Bellevue	3	3.5	3	3.5				
Des Moines	1	7.1	1	7.1				
Kent	2	6.2	2	6.2				
Kirkland	1	2.8	1	2.8				
Mercer Island	2	9.7	2	9.7				
Redmond	2	6.3	2	6.3				
Renton	2	5.4	2	5.4				
Seattle	114	23.0	113	22.8	1	.2		
Kitsap	7	3.9	7	3.9				
Bremerton	1	2.7	1	2.7				
Kittitas								
Ellensburg								
Klickitat								
Lewis	3	5.2	3	5.2				
Centralia								
Lincoln								
Mason	2	5.4	2	5.4				
Okanogan	1	3.2			1	3.2		
Pacific								
Pend Oreille								
Pierce	12	2.2	12	2.2				
Puyallup								
Tacoma	6	3.7	6	3.7				
San Juan	1	10.4	1	10.4				
Skagit	2	2.8	1	1.4	1	1.4		
Anacortes	1	9.7	1	9.7				
Mount Vernon	1	6.9			1	6.9		
Skamania								
Snohomish	11	2.7	11	2.7				
Edmonds	1	3.5	1	3.5				
Everett	4	6.6	4	6.6				
Lynnwood								
Mountlake Terrace	1	6.1	1	6.1				
Spokane	6	1.7	6	1.7				
Spokane (city)	6	3.5	6	3.5				
Stevens	1	3.3	1	3.3				
Thurston								
Lacey								
Olympia								
Wahkiakum								
Walla Walla	1	2.1			1	2.1		
Walla Walla (city)	1	3.9			1	3.9		
Whatcom	4	3.4	4	3.4				
Bellingham	1	2.1	1	2.1				
Whitman								
Pullman								
Yakima	4	2.1	4	2.1				
Yakima (city)		2.0	1	2.0				

[1] Rates per 100,000 estimated population.

Table 14

Deaths with Rates[1] by External Causes by Place of Residence, Washington State 1988

County and City	All Accidents		Motor Vehicle		Falls		Drownings		Fires		All Other Accidents	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	1,710	37.5	879	19.3	227	5.0	110	2.4	67	1.5	427	9.4
Adams	13	92.9	10	71.4	1	7.1	1	7.1			1	7.1
Asotin	5	28.7	3	17.2							2	11.5
Benton	27	25.9	13	12.5	3	2.9	2	1.9	2	1.9	7	6.7
Kennewick	9	24.2	6	16.1					2	5.4	1	2.7
Richland	9	29.9	3	10.0	1	3.3	1	3.3			4	13.3
Chelan	23	46.3	7	14.1	5	10.1	1	2.0			10	20.1
Wenatchee	10	53.0	3	15.9	4	21.2					3	15.9
Clallam	27	49.6	14	25.7	2	3.7	1	1.8	1	1.8	9	16.5
Port Angeles	6	34.6	4	23.1							2	11.5
Clark	79	36.8	41	19.1	5	2.3	5	2.3	4	1.9	24	11.2
Vancouver	30	69.3	17	39.3	1	2.3	1	2.3	1	2.3	10	23.1
Columbia	2	48.8	1	24.4	1	24.4						
Cowlitz	32	39.8	17	21.1	3	3.7	4	5.0	2	2.5	6	7.5
Kelso	4	36.8	1	9.2			1	9.2	2	18.4		
Longview	10	33.8	6	20.3	1	3.4	2	6.8			1	3.4
Douglas	10	41.5	4	16.6	1	4.1			1	4.1	4	16.6
Ferry	4	65.6	2	32.8							2	32.8
Franklin	8	22.5	8	22.5								
Pasco	5	27.1	5	27.1								
Garfield	1	41.7	1	41.7								
Grant	26	49.4	16	30.4	1	1.9	1	1.9	4	7.6	4	7.6
Moses Lake	5	46.9	4	37.6							1	9.4
Grays Harbor	46	72.6	22	34.7	5	7.9	3	4.7	3	4.7	13	20.5
Aberdeen	13	75.9	5	29.2	2	11.7	1	5.8	2	11.7	3	17.5
Island	27	50.6	14	26.2	2	3.7	1	1.9			10	18.7
Oak Harbor	7	48.6	3	20.8							4	27.8
Jefferson	8	43.0	3	16.1			1	5.4			4	21.5
King	453	32.0	214	15.1	75	5.3	30	2.1	17	1.2	117	8.3
Auburn	10	32.5	7	22.7	1	3.2	1	3.2			1	3.2
Bellevue	18	21.1	5	5.9	5	5.9	3	3.5			5	5.9
Des Moines	3	21.2	1	7.1	1	7.1					1	7.1
Kent	14	43.3	10	30.9	1	3.1	1	3.1	1	3.1	1	3.1
Kirkland	6	16.8	4	11.2	2	5.6						
Mercer Island	4	19.3	2	9.7							2	9.7
Redmond	5	15.8	3	9.5			1	3.2			1	3.2
Renton	17	46.0	12	32.5	3	8.1					2	5.4
Seattle	185	37.3	65	13.1	40	8.1	12	2.4	7	1.4	61	12.3
Kitsap	47	26.5	19	10.7	11	6.2	4	2.3	1	.6	12	6.8
Bremerton	13	35.1	1	2.7	4	10.8			1	2.7	7	18.9
Kittitas	8	32.0	5	20.0	2	8.0					1	4.0
Ellensburg	3	26.1	1	8.7	2	17.4						
Klickitat	20	120.5	11	66.3	2	12.0			2	12.0	5	30.1
Lewis	32	55.7	15	26.1	3	5.2			2	3.5	12	20.9
Centralia	9	75.9	5	42.2							4	33.8
Lincoln	6	61.9	5	51.5	1	10.3						
Mason	21	57.1	12	32.6	4	10.9	1	2.7	1	2.7	3	8.2
Okanogan	22	69.4	13	41.0	1	3.2	1	3.2			7	22.1
Pacific	9	51.1	1	5.7	1	5.7	1	5.7	1	5.7	5	28.4
Pend Oreille	12	136.4	6	68.2			2	22.7			4	45.5
Pierce	185	33.8	104	19.0	24	4.4	14	2.6	8	1.5	35	6.4
Puyallup	14	67.2	8	38.4	1	4.8	1	4.8			4	19.2
Tacoma	66	40.9	33	20.4	11	6.8	5	3.1	6	3.7	11	6.8
San Juan	3	31.3	3	31.3								
Skagit	43	60.7	28	39.5	3	4.2	3	4.2			9	12.7
Anacortes	3	29.1	1	9.7	2	19.4						
Mount Vernon	9	61.7	5	34.3			2	13.7			2	13.7
Skamania	3	37.5	1	12.5			2	25.0				
Snohomish	141	34.4	75	18.3	16	3.9	13	3.2	4	1.0	33	8.1
Edmonds	8	28.1	2	7.0	3	10.5	2	7.0			1	3.5
Everett	23	37.8	13	21.3	3	4.9	1	1.6	1	1.6	5	8.2
Lynnwood	6	23.6	4	15.7	1	3.9					1	3.9
Mountlake Terrace	9	55.2	4	24.6	2	12.3	1	6.1	1	6.1	1	6.1
Spokane	131	37.0	61	17.2	27	7.6	6	1.7	4	1.1	33	9.3
Spokane (city)	82	48.2	32	18.8	20	11.8	3	1.8	3	1.8	24	14.1
Stevens	18	59.6	10	33.1	3	9.9	2	6.6	1	3.3	2	6.6
Thurston	43	28.8	26	17.4	3	2.0	3	2.0			11	7.4
Lacey	4	24.4	3	18.3			1	6.1				
Olympia	20	66.1	10	33.0	1	3.3	1	3.3			8	26.4
Wahkiakum	3	85.7					1	28.6			2	57.1
Walla Walla	23	47.6	15	31.1	4	8.3					4	8.3
Walla Walla (city)	15	59.0	9	35.4	3	11.8					3	11.8
Whatcom	34	28.5	15	12.6	5	4.2	1	.8	2	1.7	11	9.2
Bellingham	9	19.3	1	2.1	2	4.3					6	12.9
Whitman	13	33.3	4	10.3	4	10.3			1	2.6	4	10.3
Pullman	4	18.0			3	13.5					1	4.5
Yakima	102	54.8	60	32.2	9	4.8	6	3.2	6	3.2	21	11.3
Yakima (city)	24	48.5	14	28.3	3	6.1	1	2.0			6	12.1

[1] Rates per 100,000 estimated population.

Table 15

Deaths with Rates[1] by External Causes by Place of Residence, Washington State 1988

County and City	Suicide		Homicide		Undetermined	
	Number	Rate	Number	Rate	Number	Rate
State Total	716	15.7	271	5.9	96	2.1
Adams	2	14.3				
Asotin	5	28.7				
Benton	21	20.2	2	1.9	2	1.9
Kennewick	7	18.8	1	2.8		
Richland	9	29.8			1	3.3
Chelan	12	24.1	8	16.1		
Wenatchee	6	31.8	3	15.9		
Clallam	8	14.7	1	1.8	3	5.5
Port Angeles	1	5.7	1	5.7		
Clark	28	13.1	6	2.8	5	2.3
Vancouver	8	18.4	2	4.6	2	4.6
Columbia						
Cowlitz	11	13.7	2	2.5	2	2.5
Kelso	1	9.1	1	9.1		
Longview	1	3.3	1	3.3		
Douglas	7	29.0	1	4.1		
Ferry	6	98.4				
Franklin	5	14.1	4	11.3	3	8.5
Pasco	3	16.2	3	16.2	3	16.2
Garfield						
Grant	9	17.1	5	9.5		
Moses Lake						
Grays Harbor	12	16.9	3	4.7	1	1.6
Aberdeen	2	11.6				
Island	6	11.2	3	5.6	1	1.9
Oak Harbor	2	13.8	1	6.9	1	6.9
Jefferson	8	43.0	2	10.8		
King	212	15.0	84	5.9	38	2.7
Auburn	5	16.2				
Bellevue	6	7.0	3	3.5		
Des Moines	3	21.2	1	7.0	1	7.0
Kent	4	12.3	1	3.0		
Kirkland	4	11.1	3	8.3		
Mercer Island	2	9.6				
Redmond	6	18.9				
Renton	3	8.1	1	2.7	2	5.4
Seattle	99	19.9	59	11.8	27	5.4
Kitsap	31	17.5	5	2.8	2	1.1
Bremerton	7	18.8	1	2.6		
Kittitas	3	12.0				
Ellensburg						
Klickitat	1	6.0				
Lewis	6	10.5	1	1.7		
Centralia	2	16.8				
Lincoln	1	10.3				
Mason	3	8.2	3	8.2	2	5.4
Okanogan	10	31.5	7	22.1		
Pacific	6	34.1	3	17.0	1	5.7
Pend Oreille			2	22.7		
Pierce	88	16.1	52	9.5	20	3.7
Puyallup	8	38.3	1	4.7		
Tacoma	36	22.3	24	14.8	16	9.9
San Juan	2	20.8			1	10.4
Skagit	13	18.4	4	5.6	1	1.4
Anacortes	1	9.6	1	9.6		
Mount Vernon	5	34.2	1	6.8		
Skamania	2	25.0				
Snohomish	70	17.1	14	3.4	4	1.0
Edmonds	3	10.5				
Everett	15	24.6	2	3.2	2	3.2
Lynnwood	5	19.6	1	3.9		
Mountlake Terrace	2	12.2	2	12.2		
Spokane	37	10.4	14	4.0	6	1.7
Spokane (city)	23	13.5	9	5.2	2	1.1
Stevens	7	23.2	1	3.3		
Thurston	26	17.4	8	5.4	1	.7
Lacey	5	30.5	2	12.2		
Olympia	7	23.1	3	9.9	1	3.3
Wahkiakum	1	28.6				
Walla Walla	8	16.6	4	8.3	1	2.1
Walla Walla (city)	6	23.5	2	7.8	1	3.9
Whatcom	17	14.3	6	5.0	1	.8
Bellingham	9	19.3	4	8.5		
Whitman	4	10.3				
Pullman	1	4.4				
Yakima	28	15.0	26	14.0	1	.5
Yakima (city)	11	22.2	10	20.2	1	2.0

[1] Rates per 100,000 estimated population.

Table 16

Deaths by Month by Selected Causes, Washington State Occurrences 1983

Cause of Death with International List Number	Total	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total All Causes	36,423	3,510	3,246	3,153	2,988	2,982	2,902	2,982	2,845	2,835	2,942	2,913	3,125
Infectious and Parasitic Diseases (001-139)	615	70	41	42	51	45	42	53	57	53	63	46	52
Pneumonia (480-487)	1,234	166	160	106	90	85	85	86	71	72	87	93	133
Influenza (487)	82	16	45	12	2	2	1		1			1	2
Bronchitis (490-491)	72	7	11	13	7	5	5	1	3	4	8	1	7
Emphysema (492)	304	29	25	27	30	26	24	34	27	16	17	22	27
Asthma (493)	89	10	11	6	5	4	10	8	6	8	8	4	9
Other Chronic Obstructive Pulmonary Diseases (494-496)	1,411	145	161	137	142	128	89	113	89	92	106	96	113
Congenital Anomalies (740-759)	243	15	11	16	21	21	28	30	18	21	23	25	14
Certain Causes of Mortality in Early Infancy (760-799)	226	19	14	31	19	24	15	31	13	10	14	26	10
Motorcycle Accidents (E810-E825)	76	2	4	2	7	8	6	18	13	8	4	1	3
Other Motor Vehicle Accidents (E810-E825)	741	38	38	71	56	63	77	73	68	67	61	71	58
Drownings Resulting from Boating Accident (E830-E832)	23	2		2	2	3	1	3	1	4	2	1	2
Other Drownings (E910)	81	4	4	2	4	7	9	20	12	8	2	4	5
Falls (E880-E888)	232	16	16	22	14	25	25	21	17	21	20	9	26
Fire (E890-E899)	67	19	9	4	2	3	2	7	2	4	2	9	4
Other Accidents (E800-E928)	236	24	13	17	17	26	24	25	24	12	21	14	19
Suicide (E950-E959)	709	67	56	64	72	60	44	57	71	47	48	61	62
Homicide (E960-E969)	276	32	26	24	19	19	19	22	23	14	31	25	22

Table 17

Deaths Due to Human Immunodeficiency Virus with Rates[1] by Place of Occurrence, Washington State 1988

County and City	Total		Male		Female		Unknown	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	210	4.6	206	4.5	4	.1		
Adams								
Asotin								
Benton	1	1.0	1	1.0				
Kennewick	1	2.7	1	2.7				
Richland								
Chelan								
Wenatchee								
Clallam								
Port Angeles								
Clark	4	1.9	4	1.9				
Vancouver	4	9.2	4	9.2				
Columbia								
Cowlitz								
Kelso								
Longview								
Douglas								
Ferry								
Franklin								
Pasco								
Garfield								
Grant								
Moses Lake								
Grays Harbor								
Aberdeen								
Island	1	1.9	1	1.9				
Oak Harbor								
Jefferson								
King	158	11.2	157	11.1	1	.1		
Auburn								
Bellevue	6	7.0	6	7.0				
Des Moines	1	7.1	1	7.1				
Kent								
Kirkland	3	8.4	3	8.4				
Mercer Island	1	4.8	1	4.8				
Redmond	2	6.3	2	6.3				
Renton	2	5.4	2	5.4				
Seattle	143	28.8	142	28.6	1	.2		
Kitsap	5	2.8	5	2.8				
Bremerton	1	2.7	1	2.7				
Kittitas								
Ellensburg								
Klickitat								
Lewis	1	1.7	1	1.7				
Centralia								
Lincoln								
Mason	1	2.7	1	2.7				
Okanogan	1	3.2			1	3.2		
Pacific								
Pend Oreille								
Pierce	10	1.8	10	1.8				
Puyallup	1	4.8	1	4.8				
Tacoma	8	5.0	8	5.0				
San Juan	1	10.4	1	10.4				
Skagit	1	1.4			1	1.4		
Anacortes								
Mount Vernon	1	6.9			1	6.9		
Skamania								
Snohomish	8	2.0	8	2.0				
Edmonds	1	3.5	1	3.5				
Everett	3	4.9	3	4.9				
Lynnwood								
Mountlake Terrace	2	12.3	2	12.3				
Spokane	6	1.7	6	1.7				
Spokane (city)	6	3.5	6	3.5				
Stevens	1	3.3	1	3.3				
Thurston	2	1.3	2	1.3				
Lacey								
Olympia	2	6.6	2	6.6				
Wahkiakum								
Walla Walla	1	2.1			1	2.1		
Walla Walla (city)	1	3.9			1	3.9		
Whatcom	4	3.4	4	3.4				
Bellingham	3	6.4	3	6.4				
Whitman								
Pullman								
Yakima	4	2.1	4	2.1				
Yakima (city)	3	6.1	3	6.1				

[1] Rates per 100,000 estimated population.

Table 18

Deaths by External Causes with Rates[1] by Place of Occurrence, Washington State 1988

County and City	All Accidents		Motor Vehicle		Falls		Drownings		Fires		All Other Accidents	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
State Total	1,653	36.2	824	18.1	237	5.2	104	2.3	67	1.5	421	9.2
Adams	11	78.6	9	64.3			1	7.1			1	7.1
Asotin	2	11.5									2	11.5
Benton	20	19.2	9	8.6	2	1.9	1	1.0	1	1.0	7	6.7
Kennewick	6	16.1	3	8.1					1	2.7	2	5.4
Richland	9	29.9	3	10.0	1	3.3	1	3.3			4	13.3
Chelan	32	64.4	8	16.1	6	12.1	2	4.0			16	32.2
Wenatchee	21	111.3	4	21.2	5	26.5					12	63.6
Clallam	23	42.3	11	20.2	2	3.7			1	1.8	9	16.5
Port Angeles	14	80.7	6	34.6	2	11.5					6	34.6
Clark	39	18.2	15	7.0	5	2.3	3	1.4	4	1.9	12	5.6
Vancouver	28	64.7	7	16.2	5	11.6	1	2.3	3	6.9	12	27.7
Columbia	1	24.4									1	24.4
Cowlitz	26	32.3	14	17.4	2	2.5	4	5.0	2	2.5	4	5.0
Kelso	4	36.8	2	18.4			1	9.2	1	9.2		
Longview	19	64.3	11	37.2	2	6.8	2	6.8	1	3.4	3	10.1
Douglas	6	24.9	4	16.6					1	4.1	1	4.1
Ferry	7	114.8	6	98.4							1	16.4
Franklin	11	31.0	9	25.4			1	2.8			1	2.8
Pasco	3	16.3	3	16.3								
Garfield	1	41.7	1	41.7								
Grant	19	36.1	13	24.7	1	1.9	1	1.9	4	7.6		
Moses Lake	3	28.2	2	18.8					1	9.4		
Grays Harbor	35	55.2	14	22.1	4	6.3	4	6.3	3	4.7	10	15.8
Aberdeen	17	99.2	8	46.7	1	5.8	1	5.8	2	11.7	5	29.2
Island	14	26.2	8	15.0	1	1.9					5	9.4
Oak Harbor	2	13.9	1	6.9							1	6.9
Jefferson	11	59.1	5	26.9	1	5.4	1	5.4			4	21.5
King	502	35.5	239	16.9	77	5.4	31	2.2	21	1.5	134	9.5
Auburn	14	45.5	10	32.5			1	3.2			3	9.7
Bellevue	24	28.2	13	15.3	7	8.2	1	1.2			3	3.5
Des Moines	4	28.3			3	21.2					1	7.1
Kent	14	43.3	10	30.9			2	6.2	1	3.1	1	3.1
Kirkland	7	19.5	2	5.6	3	8.4					2	5.6
Mercer Island												
Redmond	5	15.8	5	15.8								
Renton	11	29.8	3	8.1	2	5.4	1	2.7			5	13.5
Seattle	373	75.2	164	33.1	59	11.9	22	4.4	18	3.6	110	22.2
Kitsap	31	17.5	9	5.1	8	4.5	3	1.7	1	.6	10	5.6
Bremerton	19	51.3	3	8.1	6	16.2	2	5.4	1	2.7	7	18.9
Kittitas	21	84.0	17	68.0	1	4.0					3	12.0
Ellensburg	11	95.7	9	78.3	1	8.7					1	8.7
Klickitat	18	108.4	9	54.2	1	6.0	1	6.0	2	12.0	5	30.1
Lewis	35	61.0	13	22.6	2	3.5	3	5.2	2	3.5	15	26.1
Centralia	10	84.4	3	25.3							7	59.1
Lincoln	3	30.9	2	20.6	1	10.3						
Mason	22	59.8	15	40.8	2	5.4	1	2.7	1	2.7	3	8.2
Okanogan	25	78.9	16	50.5	1	3.2	1	3.2			7	22.1
Pacific	8	45.5	5	28.4	1	5.7	1	5.7	1	5.7		
Pend Oreille	8	90.9	5	56.8			2	22.7			1	11.4
Pierce	177	32.3	97	17.7	32	5.8	7	1.3	7	1.3	34	6.2
Puyallup	14	67.2	7	33.6	1	4.8			1	4.8	5	24.0
Tacoma	108	66.9	51	31.6	24	14.9	5	3.1	6	3.7	22	13.6
San Juan	4	41.7	1	10.4			2	20.8			1	10.4
Skagit	46	65.0	28	39.5	5	7.1	4	5.6			9	12.7
Anacortes	5	48.4	2	19.4	3	29.1						
Mount Vernon	18	123.4	10	68.5	1	6.9	2	13.7			5	34.3
Skamania	10	125.0	2	25.0			5	62.5			3	37.5
Snohomish	106	25.9	52	12.7	14	3.4	6	1.5	4	1.0	30	7.3
Edmonds	9	31.6	1	3.5	5	17.5			1	3.5	2	7.0
Everett	35	57.5	16	26.3	3	4.9	1	1.6	1	1.6	14	23.0
Lynnwood	5	19.7	4	15.7	1	3.9						
Mountlake Terrace	5	30.7	3	18.4					1	6.1	1	6.1
Spokane	152	42.9	69	19.5	34	9.6	6	1.7	3	.8	40	11.3
Spokane (city)	137	80.5	60	35.3	31	18.2	5	2.9	3	1.8	38	22.3
Stevens	11	36.4	6	19.9	2	6.6	2	6.6			1	3.3
Thurston	46	30.8	26	17.4	8	5.4	3	2.0			9	6.0
Lacey	3	18.3	2	12.2			1	6.1				
Olympia	36	118.9	17	56.2	8	26.4	2	6.6			9	29.7
Wahkiakum	2	57.1					1	28.6			1	28.6
Walla Walla	24	49.7	13	26.9	5	10.4	1	2.1			5	10.4
Walla Walla (city)	21	82.5	10	39.3	5	19.7	1	3.9			5	19.7
Whatcom	44	36.9	20	16.8	6	5.0	3	2.5	2	1.7	13	10.9
Bellingham	23	49.3	11	23.6	4	8.6	2	4.3			6	12.9
Whitman	10	25.6	5	12.8	2	5.1			1	2.6	2	5.1
Pullman	4	18.0	2	9.0	1	4.5					1	4.5
Yakima	90	48.3	49	26.3	11	5.9	3	1.6	6	3.2	21	11.3
Yakima (city)	45	91.0	16	32.3	9	18.2	2	4.0	5	10.1	13	26.3

[1] Rates per 100,000 estimated population.

S02420B-HDE

Table 19

Deaths by External Causes with Rates[1] by Place of Occurrence, Washington State 1988

County and City	Suicide		Homicide		Undetermined	
	Number	Rate	Number	Rate	Number	Rate
State Total	709	15.5	276	6.0	97	2.1
Adams	3	21.4				
Asotin	5	28.7				
Benton	19	18.3	1	1.0		
Kennewick	9	24.2	1	2.7		
Richland	8	26.5				
Chelan	13	26.2	6	12.1		
Wenatchee	10	53.0	3	15.9		
Clallam	7	12.9	1	1.8	4	7.4
Port Angeles	5	28.8	1	5.8	2	11.5
Clark	26	12.1	5	2.3	3	1.4
Vancouver	18	41.6	4	9.2	3	6.9
Columbia						
Cowlitz	7	8.7	2	2.5	1	1.2
Kelso	3	27.6	1	9.2	1	9.2
Longview	3	10.1				
Douglas	6	24.9				
Ferry	4	65.6				
Franklin	5	14.1	4	11.3	3	8.5
Pasco	5	27.1	4	21.7	3	16.3
Garfield	1	41.7				
Grant	8	15.2	3	5.7		
Moses Lake	1	9.4	2	18.8		
Grays Harbor	15	23.7	3	4.7	1	1.6
Aberdeen	6	35.0	1	5.8		
Island	5	9.4	1	1.9		
Oak Harbor	1	6.9				
Jefferson	9	48.4	2	10.8		
King	219	15.5	92	6.5	45	3.2
Auburn	8	26.0	2	6.5		
Bellevue	10	11.7	1	1.2		
Des Moines	2	14.2			1	7.1
Kent	11	34.0	1	3.1	2	6.2
Kirkland	6	16.8				
Mercer island	2	9.7				
Redmond	8	25.2			1	3.2
Renton	6	16.2	2	5.4	2	5.4
Seattle	135	27.2	81	16.3	36	7.3
Kitsap	28	15.8	4	2.3		
Bremerton	11	29.7	1	2.7		
Kittitas	3	12.0	1	4.0		
Ellensburg	3	26.1				
Klickitat						
Lewis	8	13.9	3	5.2		
Centralia	2	16.9				
Lincoln	2	20.6				
Mason	3	8.2	3	8.2	1	2.7
Okanogan	10	31.5	7	22.1		
Pacific	7	39.8	3	17.0		
Pend Oreille			2	22.7		
Pierce	80	14.6	55	10.0	22	4.0
Puyallup	12	57.6	5	24.0		
Tacoma	47	29.1	34	21.1	18	11.2
San Juan	1	10.4				
Skagit	12	16.9	2	2.8	1	1.4
Anacortes	2	19.4				
Mount Vernon	5	34.3	1	6.9		
Skamania	2	25.0			1	12.5
Snohomish	66	16.1	14	3.4	3	.7
Edmonds	4	14.0				
Everett	21	34.5	4	6.6	2	3.3
Lynnwood	6	23.6				
Mountlake Terrace	1	6.1				
Spokane	41	11.6	14	4.0	6	1.7
Spokane (city)	35	20.6	12	7.1	5	2.9
Stevens	6	19.9	2	6.6		
Thurston	23	15.4	8	5.4	2	1.3
Lacey	4	24.4	1	6.1		
Olympia	14	46.3	7	23.1	2	6.6
Wahkiakum	1	28.6				
Walla Walla	12	24.8	4	8.3	2	4.1
Walla Walla (city)	12	47.2	3	11.8	2	7.9
Whatcom	21	17.6	6	5.0	1	.8
Bellingham	16	34.3	5	10.7	1	2.1
Whitman	3	7.7				
Pullman						
Yakima	28	15.0	28	15.0	1	.5
Yakima (city)	20	40.4	19	38.4	1	2.0

[1] Rates per 100,000 estimated population.

Table 20

Deaths by Type of Place by Place of Occurrence, Washington State 1988

County and City	Total	General Hospital	Nursing Home	Home	Federal Facility	Psychiatric Hospital	State Facility	Dead on Arrival	Other and Not Specified
State Total	36,423	15,847	9,463	8,373	977	26	5	33	1,699
Adams	112	45	43	14				1	9
Asotin	129	44	51	33					1
Benton	591	291	93	183					24
Kennewick	243	96	52	82					13
Richland	270	173	29	67					1
Chelan	637	314	193	97				2	31
Wenatchee	487	281	140	52				2	12
Clallam	514	180	156	149				3	26
Port Angeles	327	165	75	74				2	11
Clark	1,340	499	433	354	7				47
Vancouver	1,130	498	330	271	7				24
Columbia	46	16	19	10				1	
Cowlitz	789	322	251	131					85
Kelso	46		5	34					7
Longview	690	322	232	68					68
Douglas	88		39	40					9
Ferry	28	11	1	5					11
Franklin	244	106	54	65					19
Pasco	226	106	54	58					8
Garfield	24	5	13	4					2
Grant	325	167	77	62					19
Moses Lake	145	76	43	23					3
Grays Harbor	631	250	206	138				1	36
Aberdeen	398	225	113	51				1	8
Island	294	64	89	117	5			2	17
Oak Harbor	56		14	38					4
Jefferson	158	44	35	58					21
King	11,521	5,515	2,586	2,636	267			5	512
Auburn	350	140	113	78					19
Bellevue	536	316	66	136					18
Des moines	230		192	32					6
Kent	154	1	6	118					29
Kirkland	406	212	108	76					10
Mercer island	80		48	29					3
Redmond	270	159	38	57					16
Renton	635	345	148	118					24
Seattle	7,965	4,186	1,550	1,668	267			4	290
Kitsap	1,172	455	320	305	31			2	59
Bremerton	746	455	148	127					16
Kittitas	218	64	73	53				1	27
Ellensburg	155	64	58	25					8
Klickitat	121	48	24	34				1	14
Lewis	501	214	156	96					35
Centralia	317	155	128	28					6
Lincoln	94	48	30	12					4
Mason	255	90	64	80			2	1	18
Okanogan	321	123	91	79					28
Pacific	188	67	62	47				1	11
Pend oreille	54	22	11	11					10
Pierce	4,400	1,898	1,041	904	408	13	2	3	131
Puyallup	716	348	239	122				1	6
Tacoma	3,018	1,543	738	550	112	9		1	65
San Juan	54		21	20				1	12
Skagit	760	324	204	180				2	50
Anacortes	162	47	72	36					7
Mount Vernon	327	157	89	71					10
Skamania	29			17					12
Snohomish	2,489	940	674	770					105
Edmonds	449	264	79	104					2
Everett	1,042	575	231	213					23
Lynnwood	166	1	74	81					10
Mountlake Terrace	41		1	37					3
Spokane	3,587	1,794	901	608	173	13	1		97
Spokane (city)	3,344	1,779	812	511	166	2			74
Stevens	189	59	60	60					10
Thurston	1,166	499	317	300				4	46
Lacey	168		112	48					8
Olympia	903	498	199	181				3	22
Wahkiakum	25		13	9					3
Walla Walla	628	250	189	94	86				9
Walla Walla (city)	565	250	145	78	86				6
Whatcom	946	277	366	233				1	69
Bellingham	730	276	288	139					27
Whitman	157	47	63	42					5
Pullman	56	24	18	14					
Yakima	1,598	755	444	323				1	75
Yakima (city)	1,128	611	303	189				1	24

Table 21

Infant Mortality by Age and Sex by Cause, Washington State Residents 1988

Cause and International List Number	Total		Under 1 Day		1 Day - Under 7 Days		7 Days - Under 28 Days		28 Days - Under 3 Months		3 Months - Under 6 Months		6 Months - Under 9 Months		9 Months - Under 12 Months	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
Total all causes	358	294	95	90	47	31	39	30	73	62	68	57	20	18	16	6
All Infective and Parasitic Diseases (000-139)	5	2					1	1	1	1	1				2	
Malignant Neoplasms (140-208,230-234)	1												1			
Meningitis (320,322)	1				1											
Diseases of the Circulatory System (390-459)	8	7			2				6	4		2				1
Pneumonia and Influenza (480-487)	2	5				1			1	3	1	1				
Other Diseases of Respiratory System (510-519)	3	4					1		1		1	3		1		
Hernia and Intestinal Obstruction (550-553,560)	1				1											
Congenital Anomalies (740-759)	81	60	26	19	15	14	12	8	14	8	7	9	5	2	2	
Anencephalus (740)	2	3	1	2	1			1								
Spina bifida and Meningocele (741)		2								2						
Other Anomalies of the Central Nervous System (742)	2	6	1	3		2	1							1		
Anomalies of the Heart (745-746)	25	14	1	1	4	6	7	3	6	3	4	1	3			
Other Anomalies of Circulatory System (747)	6	2			3		1	1	2			1				
Anomalies of the Respiratory System (748)	20	9	6	2	2	2	2		4	1	2	3	2	1	2	
Anomalies of the Digestive System (749-751)	1	1	1					1								
Anomalies of the Genitourinary System (752-753)	6	2	5	2	1											
Anomalies of the Musculoskeletal System (754-756)	10	6	5	4	1		1	1	2		1	1				
Chromosomal Anomalies (758)	5	9	3	1	2	3		1		2		2				
Other Congenital Anomalies	4	6	3	4	1	1						1				
Certain Diseases of Early Infancy (760-779)	116	109	66	69	25	14	16	18	2	5	5	1	2	2		
Maternal Diseases Affecting Child (760)	1	2	1	1		1										
Complications of Pregnancy Affecting Child (761-762)	18	21	18	20		1										
Birth Injuries (763,767-769)	44	35	15	11	17	10	7	9	1	3	3	1	1	1		
Other Diseases Peculiar to Early Infancy	53	51	32	37	8	2	9	9	1	2	2		1	1		
Sudden Infant Death Syndrome (7980)	101	79			1	1	6	3	42	32	42	36	8	7	2	
All Other Diseases (000-799)	21	15	2	2	1	1	2		4	4	7	3	3	3	2	2
All Accidents (E800-E949)	12	8	1		1		1			3			1	3	8	2
Motor Vehicle Accidents (E810-E825)	2	4								2			1	1	1	1
Accidental Drowning and Submersion (E910)	5		1												4	
Inhalation of Food or Other Object Causing Obstruction or Suffocation (E911-E912)																
Mechanical Suffocation in Bed or Cradle and In Other and Unspecified Circumstances (E913)	2	1	1	1	1											
All Other Accidents	3	3	1					2	2	1						
Homicide (E963-E968)	5	4		1	1	4	2			1						
Injury Undetermined Whether Accidentally or Purposely Inflicted (E980-988)	1	1	1	1												

Table 22

Matched Infant Deaths by Child's Race at Birth by Place of Residence, Washington State 1988[1]

County and City	Total	White	African-American	Native American	Japanese	Chinese	Filipino	Other Asian	Other	Unknown	Hispanic[2]
State Total	652	516	54	37	2	2	3	18		20	24
Adams	2	2									2
Asotin	4	4									
Benton	10	10									1
Kennewick	4	4									1
Richland	4	4									
Chelan	9	8		1							1
Wenatchee	3	2		1							
Clallam	5	4		1							
Port Angeles	2	2									
Clark	40	34		2						4	3
Vancouver	11	9								2	1
Columbia											
Cowlitz	10	9								1	1
Kelso	3	3									1
Longview	3	2								1	
Douglas	1	1									1
Ferry											
Franklin	9	9									1
Pasco	7	7									
Garfield											
Grant	11	9	1							1	2
Moses Lake	1	1									
Grays Harbor	12	10		2							
Aberdeen	7	6		1							
Island	7	7									
Oak Harbor	2	2									
Jefferson	3	3									
King	190	126	32	7	1	2	3	8		11	3
Auburn	6	4		2							
Bellevue	7	4	2				1				
Des Moines											
Kent	5	5									
Kirkland	4	2								2	
Mercer island											
Redmond	3	2								1	
Renton	2	2									
Seattle	87	42	28	4	1	2	2	5		3	2
Kitsap	21	18	1	1						1	
Bremerton	7	5	1							1	
Kittitas	3	3									
Ellensburg	2	2									
Klickitat	2	2									
Lewis	10	10									
Centralia											
Lincoln	1	1									
Mason	4	3									
Okanogan	3	1		2							1
Pacific											
Pend Oreille	3	2		1							
Pierce	97	67	14	9	1			6			6
Puyallup	9	7		2							
Tacoma	28	16	4	4				4			2
San Juan											
Skagit	16	15		1							
Anacortes	1	1									
Mount Vernon	3	3									
Skamania											
Snohomish	61	54	2	2				2		1	
Edmonds	6	5						1			
Everett	12	11		1							
Lynnwood	7	5	1					1			
Mountlake Terrace	4	4									
Spokane	45	39	3	2				1			
Spokane (city)	21	15	3	2				1			
Stevens	2	1		1							
Thurston	18	16		1				1			
Lacey	3	2						1			
Olympia	8	8									
Wahkiakum	1	1									
Walla Walla	7	7									
Walla Walla (city)	5	5									
Whatcom	12	10		1						1	
Bellingham	5	4								1	
Whitman	3	3									
Pullman	3	3									
Yakima	30	27	1	2							2
Yakima (city)	10	9	1								

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[1] Tables prior to data year 1987 use infants's race at death.

[2] Hispanic numbers are not included in total sum.

Table 23

Infant Mortality by Leading Causes by Place of Residence, Washington State 1988

County and City	Total All Causes	Birth Injuries	Other Causes Of Mortality In Early Infancy	Congenital Malformations	Influenza and Pneumonia	All Accidents	Sudden Infant Death	All Other Causes
State Total	652	79	146	141	7	20	180	79
Adams	2			1				1
Asotin	4	1	2				1	
Benton	10	1	1	2		2	3	1
Kennewick	4		1	1		1	1	
Richland	4	1		1			1	1
Chelan	9	1	3	4				1
Wenatchee	3	1	1	1				
Clallam	5			1			4	
Port Angeles	2			1			1	
Clark	40	4	6	9	1		14	6
Vancouver	11	1	4	1			2	3
Columbia								
Cowlitz	10		3	2			3	2
Kelso	3		2				1	
Longview	3		1				1	1
Douglas	1		1					
Ferry								
Franklin	9	2		1	1		5	
Pasco	7	2			1		4	
Garfield								
Grant	11	2		4		2	2	1
Moses Lake	1	1						
Grays Harbor	12	1	5	2			3	1
Aberdeen	7	1	4	1			1	
Island	7	1	1			1	1	3
Oak Harbor	2							2
Jefferson	3	2		1				
King	190	27	46	36	2	5	50	24
Auburn	6	1	3				2	
Bellevue	7	3	1	1			2	
Des Moines								
Kent	5	1	1	2			1	
Kirkland	4	1	1					2
Redmond	3		1				1	1
Renton	2						1	1
Seattle	87	15	23	18	1	1	19	10
Kitsap	21	5	1	4		2	7	2
Bremerton	7	2	1	1		1		2
Kittitas	3		1		1		1	
Ellensburg	2		1				1	
Klickitat	2		1				1	
Lewis	10	1	2	6				1
Lincoln	1			1				
Mason	4						1	3
Okanogan	3		1	1			1	
Pacific								
Pend Oreille	3			1			1	1
Pierce	97	14	23	24		2	26	8
Puyallup	9	3	1	2			3	
Tacoma	28	3	10	4		2	6	3
San Juan								
Skagit	16	1	1	4		2	6	2
Mount Vernon	3					1	2	
Skamania								
Snohomish	61	8	8	14	1	3	17	10
Edmonds	6		1	2			1	2
Everett	12	1		2		1	6	2
Lynnwood	7	2	2	2			1	
Mountlake Terrace	4	2					1	1
Spokane	45	1	18	8			15	3
Spokane (city)	21	1	10	3			6	1
Stevens	2			1			1	
Thurston	18	1	9	2	1		4	1
Lacey	3			1			1	1
Olympia	8	1	4		1		2	
Wahkiakum	1							1
Walla Walla	7	1	2	1		1	2	
Walla Walla (city)	5	1	1	1		1	1	
Whatcom	12	1	3	4			2	2
Bellingham	5		2	2				1
Whitman	3		2				1	
Pullman	3		2				1	
Yakima	30	4	6	7			8	5
Yakima (city)	10		4	3			2	1

Table 24

Matched Infant Deaths[1] by Mother's Age Group by Place of Residence,[2] Washington State 1988

County and City	Total	Under 15	15-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State Total	652	3	96	191	191	105	41	8	1	16
Adams	2			2						
Asotin	4		1	3						
Benton	10		2	2	4	2				
Kennewick	4		1	1	2					
Richland	4		1		1	2				
Chelan	9			5	1	3				
Wenatchee	3			1		2				
Clallam	5			2	2	1				
Port Angeles	2				2					
Clark	40		14	7	11	4	1			3
Vancouver	11		4	3	3					1
Columbia										
Cowlitz	10		2	2	4	1				1
Kelso	3			2	1					
Longview	3		2							1
Douglas	1				1					
Ferry										
Franklin	9	1	1	1	4	2				
Pasco	7	1		1	3	2				
Garfield										
Grant	11		2	2	4	1	1			1
Moses Lake	1		1							
Grays Harbor	12		3	3	3	1	2			
Aberdeen	7		1	2	3		1			
Island	7			4	2		1			
Oak Harbor	2			1	1					
Jefferson	3		1	2						
King	190		19	48	52	44	17	3		7
Auburn	6		2	2	1	1				
Bellevue	7		2	1	3		1			
Kent	5		1	2	2					
Kirkland	4		1		1			1		1
Redmond	3		1		1		1			
Renton	2				2					
Seattle	87		5	24	24	23	7			4
Kitsap	21		2	8	8	2				1
Bremerton	7				4	2				1
Kittitas	3			2		1				
Ellensburg	2			2						
Klickitat	2		1		1					
Lewis	10		1	3	5	1				
Lincoln	1			1						
Mason	4	1	1			1	1			
Okanogan	3			1		2				
Pacific										
Pend Oreille	3		1	2						
Pierce	97		16	32	23	17	7	2		
Puyallup	9		2	4	1	2				
Tacoma	28		4	14	7	1	1	1		
San Juan										
Skagit	16		2	4	8	1	1			
Anacortes	1		1							
Mount Vernon	3			1	2					
Skamania										
Snohomish	61		4	14	28	7	7	1		
Edmonds	6			1	5					
Everett	12			4	5	1	2			
Lynnwood	7		1	2	2	2				
Mountlake Terrace	4			1	2	1				
Spokane	45		8	19	14	3	1			
Spokane (city)	21		4	8	7	2				
Stevens	2								1	1
Thurston	18		2	7	4	4		1		
Lacey	3			2	1					
Olympia	8		1	2	2	2		1		
Wahkiakum	1		1							
Walla Walla	7		2	4				1		
Walla Walla (city)	5			4				1		
Whatcom	12		1	4	3	2	2			
Bellingham	5			1	1	2	1			
Whitman	3				2	1				
Pullman	3				2	1				
Yakima	30	1	9	7	7	4				2
Yakima (city)	10		4	4	2					

[1] Deaths are matched with births to find mother's age.

[2] Residence is the infant's at the time of death.

Table 25

Fetal, Perinatal, Neonatal, and Infant Mortality by Place of Residence, Washington State 1988

	Fetal Deaths		Perinatal Mortality[2]		Neonatal Mortality		Infant Mortality	
County and City	Number	Ratio[1]	Number	Rate[3]	Number	Rate[4]	Number	Rate[4]
State Total	381	5.3	644	8.8	332	4.6	652	9.0
Adams	2	7.7	4	15.3	2	7.7	2	7.7
Asotin			3	12.9	4	17.2	4	17.2
Benton	14	8.0	15	8.5	2	1.1	10	5.7
Kennewick	7	8.6	7	8.5	1	1.2	4	4.9
Richland	5	12.2	6	14.5	1	2.4	4	9.8
Chelan	10	12.0	14	16.6	4	4.8	9	10.8
Wenatchee	5	14.7	7	20.2	2	5.9	3	8.8
Clallam	3	4.3	3	4.2			5	7.1
Port Angeles	1	4.1	1	4.1			2	8.2
Clark	13	3.8	26	7.5	17	4.9	40	11.5
Vancouver	7	4.6	11	7.2	5	3.3	11	7.2
Columbia								
Cowlitz	3	2.4	6	4.8	4	3.2	10	8.0
Kelso	1	4.4	3	13.3	2	8.9	3	13.3
Longview	1	1.9	1	1.9			3	5.6
Douglas	3	8.6	4	11.4	1	2.9	1	2.9
Ferry								
Franklin	6	7.7	9	11.5	5	6.4	9	11.6
Pasco	3	5.8	5	9.6	3	5.8	7	13.5
Garfield								
Grant	6	6.7	9	10.0	4	4.5	11	12.3
Moses Lake					1	5.0	1	5.0
Grays harbor	8	8.4	13	13.5	8	8.4	12	12.5
Aberdeen	3	10.2	7	23.6	6	20.5	7	23.9
Island	3	3.2	5	5.3	2	2.1	7	7.5
Oak Harbor							2	4.8
Jefferson			3	13.0	3	13.0	3	13.0
King	78	3.7	151	7.1	95	4.5	190	9.0
Auburn	2	3.1	5	7.8	4	6.3	6	9.4
Bellevue	1	1.0	5	5.1	4	4.1	7	7.2
Des moines	3	21.1	3	20.7				
Kent	7	11.9	10	16.8	4	6.8	5	8.5
Kirkland	2	5.7	4	11.3	2	5.7	4	11.4
Redmond			2	4.0	2	4.0	3	6.0
Renton	4	6.2	4	6.1			2	3.1
Seattle	45	6.4	83	11.7	47	6.7	87	12.4
Kitsap	19	6.7	27	9.4	9	3.2	21	7.4
Bremerton	3	2.8	7	6.5	4	3.7	7	6.5
Kittitas	2	6.8	3	10.1	1	3.4	3	10.2
Ellensburg	1	7.5	2	14.8	1	7.5	2	14.9
Klickitat	5	22.6	6	26.5	1	4.5	2	9.0
Lewis	4	4.7	10	11.7	8	9.4	10	11.8
Lincoln							1	9.8
Mason	3	6.8	3	6.7			4	9.0
Okanogan	1	1.8	3	5.5	2	3.7	3	5.5
Pacific	1	4.0	1	3.9				
Pend Oreille			1	8.0	1	8.0	3	24.0
Pierce	58	5.8	105	10.5	54	5.4	97	9.8
Puyallup	1	2.5	5	12.3	6	14.8	9	22.2
Tacoma	21	6.3	36	10.7	16	4.8	28	8.4
San Juan								
Skagit	10	9.1	15	13.5	6	5.4	16	14.5
Mount Vernon	2	6.9	2	6.9	1	3.5	3	10.4
Skamania								
Snohomish	34	4.6	59	8.0	32	4.3	61	8.3
Edmonds	4	8.7	7	15.1	3	6.5	6	13.1
Everett	9	5.7	11	6.9	3	1.9	12	7.6
Lynnwood	6	9.7	10	16.0	6	9.7	7	11.3
Mountlake Terrace			1	3.7	2	7.4	4	14.9
Spokane	39	7.3	57	10.7	26	4.9	45	8.5
Spokane (city)	20	6.7	31	10.3	15	5.0	21	7.0
Stevens	3	7.5	3	7.5	1	2.5	2	5.0
Thurston	11	5.0	20	9.1	10	4.6	18	8.2
Lacey							3	9.8
Olympia	2	3.2	6	9.7	5	8.1	8	13.0
Wahkiakum							1	25.6
Walla Walla	3	4.8	6	9.5	3	4.8	7	11.1
Walla Walla (city)	2	5.3	4	10.6	2	5.3	5	13.4
Whatcom	8	4.8	14	8.3	8	4.8	12	7.2
Bellingham	4	6.2	6	9.3	4	6.2	5	7.8
Whitman	2	4.9	4	9.8	2	4.9	3	7.4
Pullman	2	10.5	4	20.7	2	10.5	3	15.7
Yakima	29	8.2	42	11.7	17	4.8	30	8.4
Yakima (city)	9	9.0	15	14.8	7	7.0	10	10.0

[1] Ratio per 1,000 live births

[2] Fetal deaths plus liveborn infants dying at 6 days and under

[3] Rate per 1,000 live births plus fetal deaths

[4] Rate per 1,000 live births

Table 26

Fetal, Perinatal, Neonatal and Infant Mortality by Place of Occurrence, Washington State 1988

County and City	Fetal Deaths		Perinatal Mortality[2]		Neonatal Mortality		Infant Mortality	
	Number	Ratio[1]	Number	Rate[3]	Number	Rate[4]	Number	Rate[4]
State Total	370	5.2	632	8.8	332	4.7	658	9.2
Adams	3	10.5	3	10.3				
Asotin					1	1000.0	1	1000.0
Benton	14	6.9	14	6.8			7	3.4
Kennewick	2	2.7	2	2.7			3	4.1
Richland	11	11.5	11	11.4			3	3.1
Chelan	11	9.2	13	10.7	2	1.7	3	2.5
Wenatchee	9	8.1	11	9.9	2	1.8	2	1.8
Clallam	2	2.8	2	2.8			4	5.6
Port Angeles	2	3.2	2	3.2			2	3.2
Clark	3	1.3	7	3.0	6	2.6	19	8.2
Vancouver	3	1.3	7	3.0	6	2.6	19	8.2
Columbia								
Cowlitz	6	4.5	6	4.4			7	5.2
Longview	6	4.5	6	4.5			7	5.2
Douglas								
Ferry							1	27.8
Franklin	7	10.6	8	12.0	3	4.6	8	12.2
Pasco	7	10.7	8	12.1	3	4.6	8	12.2
Garfield								
Grant	2	2.8	2	2.8			6	8.5
Moses Lake	1	1.7	1	1.7			1	1.7
Grays harbor	5	7.5	8	11.9	3	4.5	7	10.4
Aberdeen	5	7.6	8	12.0	3	4.6	4	6.1
Island	3	3.8	3	3.8			3	3.8
Jefferson								
King	101	4.2	224	9.3	162	6.8	292	12.2
Auburn	2	3.3	4	6.6	2	3.3	4	6.6
Bellevue	2	.9	6	2.7	5	2.2	7	3.1
Des moines	1	1000.0	1	500.0				
Kent							3	136.4
Kirkland	4	2.0	5	2.5	2	1.0	3	1.5
Redmond	3	2.1	4	2.7	1	.7	2	1.4
Renton	4	1.4	6	2.1	2	.7	7	2.5
Seattle	83	6.1	195	14.2	149	10.9	253	18.5
Kitsap	18	7.2	20	8.0	2	.8	10	4.0
Bremerton	14	7.4	16	8.4	2	1.1	6	3.2
Kittitas	2	7.3	2	7.2			2	7.3
Ellensburg	2	7.4	2	7.3			1	3.7
Klickitat	3	13.4	3	13.2			1	4.5
Lewis	6	6.7	8	8.8	3	3.3	3	3.3
Centralia	3	4.6	4	6.2	2	3.1	2	3.1
Lincoln								
Mason							2	8.9
Okanogan	1	1.9	3	5.7	2	3.8	4	7.6
Pacific								
Pend oreille								
Pierce	62	5.9	115	10.8	61	5.8	107	10.1
Puyallup	7	5.2	8	5.9	2	1.5	13	9.6
Tacoma	40	6.2	78	12.0	42	6.5	68	10.5
San Juan								
Skagit	8	5.8	9	6.5	2	1.4	9	6.5
Mount Vernon	1	1.1	1	1.1	1	1.1	5	5.6
Skamania								
Snohomish	20	3.9	28	5.5	9	1.8	35	6.9
Edmonds	3	1.9	7	4.5	4	2.6	7	4.5
Everett	14	4.8	18	6.1	4	1.4	19	6.5
Lynnwood							2	83.3
Mountlake Terrace							2	250.0
Spokane	45	7.4	85	13.9	52	8.5	81	13.3
Spokane (city)	42	7.5	82	14.5	52	9.3	79	14.1
Stevens								
Thurston	9	4.3	14	6.7	5	2.4	11	5.3
Lacey							2	500.0
Olympia	8	3.9	13	6.3	5	2.4	9	4.4
Wahkiakum								
Walla Walla	4	4.5	5	5.6	1	1.1	3	3.4
Walla Walla (city)	4	4.6	5	5.7	1	1.1	3	3.4
Whatcom	7	4.4	8	5.0	1	.6	3	1.9
Bellingham	6	3.8	7	4.4	1	.6	1	.6
Whitman	2	5.5	3	8.2	1	2.7	2	5.5
Pullman	2	5.7	3	8.5	1	2.8	2	5.7
Yakima	26	7.6	39	11.4	16	4.7	27	7.9
Yakima (city)	20	7.9	33	12.9	16	6.3	22	8.6

[1] Ratio per 1,000 live births

[2] Fetal deaths plus liveborn infants dying at 6 days and under

[3] Rate per 1,000 live births plus fetal deaths

[4] Rate per 1,000 live births

Table 27

Fetal Mortality by Sex and Weight, Washington State Residents 1988

Gram Weight	Total	Male	Female	Unknown
State Total	381	193	187	1
1,000 grams or less	128	67	60	1
1,001 - 1,500	40	22	18	
1,501 - 2,000	33	21	12	
2,001 - 2,500	28	12	16	
2,501 - 3,000	34	16	18	
3,001 - 3,500	36	15	21	
3,501 - 4,000	23	8	15	
4,001 - 4,500	2	2	0	
4,501 and Over	13	7	6	
Not Stated	44	23	21	

S02520A-HSB

Table 28

Fetal Mortality by Cause, Washington State Residents 1988

Cause with International List Number		Totals
Total All Causes		381
Congenital Anomalies (740-759)		49
Anencephalus (740)	9	
Spina Bifida (741)	1	
Other Anomalies of the Central Nervous System (742)	1	
Anomalies of the Heart (745-746)	4	
Other Anomalies of Circulatory System (747)	1	
Anomalies of Respiratory System (748)	1	
Anomalies of Digestive System (749-751)	3	
Anomalies of the Genitourinary System (752-753)		
Anomalies of Musculoskeletal System (754-756)	4	
Chromosomal Anomalies (758)	13	
Other and Unspecified Congenital Anomalies (743-744,757,759)	12	
Certain Causes of Perinatal Morbidity and Mortality (760-779)		331
Maternal Conditions which may be Unrelated to Pregnancy (760)		
Chronic Hypertension (760.0)	7	
Maternal Infections (760.2)	3	
Maternal Injury (760.5)	3	
Other Maternal Conditions (760.1,760.3-760.4,760.6-760.9)	7	
Maternal Conditions Related to Pregnancy (761)		
Incompetent Cervix (761.0)	11	
Premature Rupture of Membranes (761.1)	12	
Other Maternal Conditions (761.2-761.9)	6	
Complications of Placenta, Cord, and Membranes (762)		
Complications of Placenta (762.0-762.3)	45	
Complications of Cord (762.4-762.6)	69	
Complications of Membranes (762.7-762.9)	7	
Complications of Labor (763)	6	
Other Complications of Pregnancy and Childbirth (764-767)	11	
Intrauterine Hypoxia (768)	19	
Diseases of the Fetus and Ill-defined Causes (769-779)		
Respiratory Conditions (769-770)	5	
Infections Specific to the Perinatal Period (771)	4	
Fetal Hemorrhage (772)	6	
Haemolytic Disease and Other Perinatal Jaundice (773-774)	2	
Endocrine and Metabolic Disturbances (775)	3	
Haematological Disorders (776)		
Disorders of Digestive System (777)	3	
Conditions Involving the Integument and Temperature Regulation (778)	4	
Other Conditions of Fetus (779)	98	
All Other Causes (001-739,780-799)		1

Table 29

Fetal Deaths by Mother's Age Group by Place of Residence, Washington State 1988

County	All Ages	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Age Unknown
State total	381	3	19	25	84	111	77	42	14		6
Adams	2							1	1		
Asotin											
Benton	14			1	3	3	4	3			
Chelan	10		1	1	4	1	1	2			
Clallam	3				1	1			1		
Clark	13				5	3	1	3	1		
Columbia											
Cowlitz	3			1	2						
Douglas	3					1		2			
Ferry											
Franklin	6				1	3	1	1			
Garfield											
Grant	6			1	1	2	2				
Grays Harbor	8		1		3	1	1	1	1		
Island	3				2		1				
Jefferson											
King	78	1	1	5	10	26	16	10	4		5
Kitsap	19		1	1	5	4	6	2			
Kittitas	2						1		1		
Klickitat	5					2	1	2			
Lewis	4			1	1	1	1				
Lincoln											
Mason	3						1	2			
Okanogan	1					1					
Pacific	1							1			
Pend Oreille											
Pierce	58		6	3	13	20	10	3	3		
San Juan											
Skagit	10			1	2	5	2				
Skamania											
Snohomish	34	1	2	4	6	9	10	2			
Spokane	39		1	3	11	12	8	3			1
Stevens	3					2			1		
Thurston	11		3		1	3	4				
Wahkiakum											
Walla Walla	3		1				2				
Whatcom	8		1	1	1	1	1	3			
Whitman	2					2					
Yakima	29	1	1	2	12	8	3	1	1		

INDUCED TERMINATIONS OF PREGNANCY

Table 1

Induced Terminations of Pregnancy by Selected Topics, 1988

A. Residents, Age Group of Patient

Age Group	Number	Percent
All Ages	29,175	100.0%[1]
<15	185	0.6
15-17	2,813	9.6
18-19	4,196	14.4
20-24	9,373	32.1
25-29	6,503	22.3
30-34	3,719	12.7
35-39	1,891	6.5
40-44	444	1.5
45+	35	0.1
Unknown	18	0.1

B. Residents, Gestational Age

Weeks	Number	Percent
Total	29,175	100.0%[1]
1-4	483	1.7
5-8	16,349	56.0
9	3,950	13.5
10	3,035	10.4
11	1,434	4.9
12	1,120	3.8
13-15	1,327	4.5
16-19	989	3.4
20+	463	1.6
Unknown	25	0.1

C. Residents, Number of Previous Abortions

Previous Abortions	Number	Percent
Total	29,175	100.0%[1]
0	14,682	50.3
1	7,593	26.0
2	3,111	10.7
3	1,179	4.0
4	414	1.4
Over 4	311	1.1
Unknown	1,885	6.5

D. Residents, Number of Previous Live Births

Previous Live Births	Number	Percent
Total	29,175	100.0%[1]
0	15,980	54.8
1	5,375	18.4
2	4,008	13.7
3	1,367	4.7
4	390	1.3
Over 4	188	.6
Unknown	1,867	6.4

E. Residents, Number of Previous Pregnancies

Previous Pregnancies	Number	Percent
Total	29,175	100.0%[1]
0	9,723	33.3
1	6,394	21.9
2	4,958	17.0
3	3,129	10.7
4	1,667	5.7
Over 4	1,439	4.9
Unknown	1,865	6.4

F. Residents, Race and Hispanic Origin

Race	Number	Percent
Total	29,175	100.0%[1]
White	16,649	57.1
African-American	1,630	5.6
Asian	1,035	3.5
Native American	272	0.9
Other	240	0.8
Unknown	9,349	32.0
Hispanic Origin[2]	401	1.4

Table 1 (Continued)
Induced Terminations of Pregnancy by Selected Topics, 1988

G. Residence and Occurrence, Travel Patterns

Residence	Number	Percent	Occurrence	Number	Percent
Total	29,175	100.0%[1]	Total	29,802	100.0%[1]
Inside Home County	18,874	64.7	County Resident	18,874	63.3
Outside Home County	10,301	35.3	Out-of-County Resident	10,928	36.7

H. Occurrence, Operative Procedure

Procedure	Number	Percent
Total	29,802	100.0%[1]
Suction Curettage	26,913	90.3
Dilatation & Evacuation	2,680	9.0
Saline	94	0.3
Prostaglandin	91	0.3
Sharp Curettage	12	—
Hysterectomy/Hysterotomy	4	—
Other	4	—
Unknown	4	—

I. Occurrence, State or Country of Residence

State or Country	Number	Percent
Total	29,802	100.0%[1]
Washington	28,053	94.1
Idaho	445	1.5
Oregon	190	0.6
Alaska	186	0.6
California	31	0.1
Montana	23	0.1
Canada	794	2.7
Other States and Countries	63	0.2
Unknown	17	0.1

J. Occurrence, Type of Complication

Complication	Number	Percent
Total	263	100.0%[1]
Retained Products	70	26.6
Infection	34	12.9
Hemorrhage >500 cc	25	9.5
Uterine Perforation	3	1.1
Failed Abortion	12	4.6
Cervical Laceration	6	2.3
Other Complications[3]	104	39.5
Multiple Complications	9	3.4

K. Occurrence, Type of Facility

Facility Type	Number	Percent
Total	29,802	100.0%[1]
Hospital	1,007	3.4
Nonhospital	28,795	96.6

[1] Detail may not add to 100% due to rounding.
[2] Hispanic numbers are not included in total sum.
[3] Other complications include 85 minor complications, such as unexplained pain and hemorrhage less than 500 cc.

Table 2

Induced Abortions, Live Births, and Abortion Ratio with Percent Change, Washington State Residents 1974-1988

Year	Induced Abortions[1]	Percent Change	Live Births	Percent Change	Abortion Ratio[2]	Percent Change
1974	16,159		50,096		323	
1975	18,628	+15.3	50,821	+1.4	367	+13.6
1976	20,251	+8.7	53,004	+4.3	382	+4.1
1977	23,938	+18.2	57,256	+8.0	418	+9.4
1978	26,254	+9.7	58,725	+2.6	447	+6.9
1979	26,796	+2.1	64,377	+9.6	416	-6.9
1980	27,947	+4.3	67,857	+5.4	412	-1.0
1981	28,968	+3.7	69,756	+2.8	415	+.7
1982	27,431	-5.3	69,529	-.3	395	-4.8
1983	26,560	-3.2	68,705	-1.2	387	-2.0
1984	26,732	+.6	68,947	+.4	388	+.3
1985	25,835	-3.4	70,226	+1.9	368	-5.2
1986	26,991	+4.5	69,431	-1.1	389	+5.7
1987	29,067	+7.7	70,329	+1.3	413	+6.2
1988	29,175	+.4	72,471	+3.0	403	-2.4

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[1] Resident abortion figures for 1974 through 1977 are estimates derived from occurrence abortion counts for those years. The occurrence counts were discounted by 11.14 percent on the basis of the 1978 ratio of residents to occurrences (i.e., 88.86 percent of the total abortions reported in 1978 were to Washington State Residents). Estimates are not the same as those published in the 1978 and 1979 reports.

[2] Number of resident abortions per 1,000 resident live births.

SHABB4-R003

Table 3

Reported Pregnancy Outcomes with Percents by Age of Patient, Washington State Residents 1988

Age of Patient	Abortions		Fetal Deaths		Live Births		Total Reported Pregnancies
Totals	29,175	(28.6%)	381	(.4%)	72,471	(71.0%)	102,027
Under 15	185	(64.9%)	3	(1.1%)	97	(34.0%)	285
15-17	2,813	(52.8%)	19	(.4%)	2,498	(46.9%)	5,330
18-19	4,196	(45.3%)	25	(.3%)	5,045	(54.4%)	9,266
20-24	9,373	(32.5%)	84	(.3%)	19,344	(67.2%)	28,801
25-29	6,503	(21.8%)	111	(.4%)	23,246	(77.9%)	29,860
30-34	3,719	(19.0%)	77	(.4%)	15,730	(80.6%)	19,526
35-39	1,891	(25.2%)	42	(.6%)	5,577	(74.3%)	7,510
40-44	444	(34.7%)	14	(1.1%)	823	(64.2%)	1,281
45 and Over	35	(50.7%)			34	(49.3%)	69
Unknown	16	(17.8%)	6	(5.9%)	77	(76.2%)	69

SHABB4-R004

Table 4

Age Group Specific Fertility Rate, Abortion Rate, and Abortion Ratio, Washington State Residents 1988

Age of Patient	Female Population[1]	Fertility Rate[2]	Abortion Rate[3]	Abortion Ratio[4]
10-14	145,552	.7	1.3	1,907
15-19	159,344	47.3	44.0	929
15-17	94,538	26.4	29.8	1,126
18-19	64,806	77.9	64.8	832
20-24	164,153	117.8	57.1	485
25-29	187,879	123.7	34.6	280
30-34	203,107	77.5	18.3	236
35-39	195,080	28.6	9.7	339
40-44	167,686	4.9	2.7	539
15-44	1,077,249	67.1	26.9	400

[1] 1988 estimates from Office of Financial Management.

[2] Resident live births for specific age group per 1,000 female population in that age group.

[3] Resident abortions for specific age group per 1,000 female population in that age group.

[4] Resident abortions for specific age group per 1,000 resident live births for that age group.

SHABB4-R007

Table 5

Previous Live Births by Age of Patient, Washington State Residents 1988

Age of Patient	Total	0	1	2	3	4	Over 4	Unknown
State Total	29,175	15,980	5,375	4,008	1,367	390	188	1,867
Under 15	185	172	1	2				10
15-17	2,813	2,445	167	10	3	2	2	184
18-19	4,196	3,202	534	108	11	2	2	337
20-24	9,373	5,440	2,010	989	277	35	8	614
25-29	6,503	2,692	1,476	1,371	425	118	34	387
30-34	3,719	1,363	766	894	343	106	53	194
35-39	1,891	545	350	495	234	97	55	115
40-44	444	103	64	128	67	27	31	24
45 & Over	35	6	4	11	6	3	3	2
Unknown	16	12	3		1			

SHABB4-R006

Table 6

Previous Induced Abortions by Age of Patient, Washington State Residents 1988

Age of Patient	Total	0	1	2	3	4	Over 4	Unknown
State Total	29,175	14,682	7,593	3,111	1,179	414	311	1,885
Under 15	185	162	9	4				10
15-17	2,813	2,241	322	52	9	4	1	184
18-19	4,196	2,803	826	188	35	6	1	337
20-24	9,373	4,561	2,684	998	357	102	54	617
25-29	6,503	2,472	1,982	1,002	385	146	123	393
30-34	3,719	1,361	1,128	554	276	107	92	201
35-39	1,891	796	534	260	105	44	35	117
40-44	444	256	96	48	12	3	5	24
45 & Over	35	16	11	4		2		2
Unknown	16	14	1	1				

SHABB4-R005

Table 7

Induced Abortions by Age of Patient by Gestation of Pregnancy, Washington State Residents 1988

Weeks Gestation	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Total	29,175	185	2,813	4,196	9,373	6,503	3,719	1,891	444	35	16
Under 9	16,832	73	1,326	2,194	5,335	3,937	2,381	1,271	281	22	12
9-12	9,539	73	1,091	1,501	3,074	2,045	1,097	514	129	11	4
13-15	1,327	17	180	231	455	266	123	41	13	1	
16-19	989	13	150	176	329	183	80	41	16	1	
20 & Over	463	9	65	89	170	70	34	21	5		
Unknown	25		1	5	10	2	4	3			

SHABB4-R008

Table 8

Induced Abortions by Type of Procedure by Gestation of Pregnancy, Washington State Occurrences 1988

Type of Procedure	Total	< 9 Weeks	9-12 Weeks	13-15 Weeks	16-19 Weeks	20+ Weeks	Unknown
State Total	29,802	17,350	9,541	1,335	1,047	513	16
Suction Curettage	26,913	16,877	9,375	600	39	7	15
Dilatation and Evacuation (D&E)	2,680	463	160	733	932	392	
Sharp Curettage	12	8	3			1	
Saline	94				20	74	
Prostaglandin	91			1	54	35	1
Hysterotomy/Hysterectomy	4		1	1	1	1	
Other	4				1	3	
Unknown	4	2	2				

SHABB4-R012

Table 9

Induced Abortions with Complications by Procedure by Gestation of Pregnancy, Washington State Occurrences 1988

Type of Procedure	Total	< 9 Weeks	9-12 Weeks	13-15 Weeks	16-19 Weeks	20+ Weeks	Unknown
State Total	263	127	79	8	24	22	3
Rate[1]	8.8	7.3	8.3	6.0	22.9	42.9	187.5
Suction Curettage	202	116	78	3	1	1	3
Rate[1]	7.5	6.9	8.3	5.0	25.6	142.9	200.0
Dilatation and Evacuation (D&E)	34	11	1	4	11	7	
Rate[1]	12.7	23.8	6.3	5.5	11.8	17.9	
Sharp Curettage							
Rate[1]							
Saline	6				1	5	
Rate[1]	63.8				50.0	67.6	
Prostaglandin	17				9	8	
Rate[1]	186.8				166.7	228.6	
Hysterotomy/Hysterectomy	3			1	1	1	
Rate[1]	750.0			1000.0	1000.0	1000.0	
Other	1				1		
Rate[1]	250.0				1000.0		

SHABB4-R010

Table 10

Induced Abortions with Complications by Type by Gestation of Pregnancy, Washington State Occurrences 1988

Type of Complication	Total[2]	< 9 Weeks	9-12 Weeks	13-15 Weeks	16-19 Weeks	20+ Weeks	Unknown
State Total	263	127	79	8	24	22	3
Rate[1]	8.8	7.3	8.3	6.0	22.9	42.9	187.5
Hemorrhage	25	11	10	1	1	2	
Rate[1]	.8	.6	1.0	.7	1.0	3.9	
Infection	34	21	10		2	1	
Rate[1]	1.1	1.2	1.0		1.9	1.9	
Uterine Perforation	3	3					
Rate[1]	.1	.2					
Cervical Laceration	6	3	1	1		1	
Rate[1]	.2	.2	.1	.7		1.9	
Retained Products	70	37	13	2	9	9	
Rate[1]	2.3	2.1	1.4	1.5	8.6	17.5	
Failed Abortion	12	6	2		1		3
Rate[1]	.4	.3	.2		1.0		187.5
Other Complications	104	43	42	4	8	7	
Rate[1]	3.5	2.5	4.4	3.0	7.6	13.6	
Multiple Complications	9	3	1		3	2	
Rate[1]	.3	.2	.1		2.9	3.9	

[1] Complications per 1,000 procedures.

[2] Total number of patients with complications was 263. Total number of complications was 272.

SHABA7-R110, R111

Table 11. Induced Abortion Intercounty Travel Patterns

Occurrence → Residence ↓	Adams	Asotin	Benton	Chelan	Clallam	Clark	Columbia	Cowlitz	Douglas	Ferry	Franklin	Garfield	Grant	Grays Harbor	Island	Jefferson	King
Adams													30				4
Asotin																	
Benton													12				24
Chelan													12		1		130
Clallam					6												136
Clark						**300**											17
Columbia													4				1
Cowlitz						32											35
Douglas													4				20
Ferry																	2
Franklin													10				7
Garfield																	
Grant													**119**				15
Grays Harbor																	145
Island															**119**		96
Jefferson																	27
King						3							1				**12511**
Kitsap						1									1		798
Kittitas																	53
Klickitat						4											2
Lewis																	87
Lincoln																	1
Mason																	54
Okanogan													2				39
Pacific						2											16
Pend Oreille																	
Pierce						1											1606
San Juan															1		37
Skagit															9		205
Skamania						7											1
Snohomish						1											2202
Spokane													15				58
Stevens													3				1
Thurston																	414
Wahkiakum																	
Walla Walla													3				21
Whatcom																	158
Whitman													11				32
Yakima						1											54
County Unknown																	3
Out-of-State						81							14		1		320
Non-US													1				538

Residence and Occurrence, Washington State 1988

Kitsap	Kittitas	Klickitat	Lewis	Lincoln	Mason	Okanongan	Pacific	Pend Oreille	Pierce	San Juan	Skagit	Skamania	Snohomish	Spokane	Stevens	Thurston	Wahkiakum	Walla Walla	Whatcom	Whitman	Yakima	Out-of-State
														3							10	
														50							3	10
									12					5							450	9
									2												156	
									11							2			1			
									3												1	701
									1												8	
									3							2						205
									2												23	1
														9							4	
									4					4							154	1
									2					12							62	
									37							102						1
											1		3						9		1	
									6													
									61				43	2		1			6	1	184	2651
									148					1		2						1
	8								2				1	1							90	
		1																			6	21
									41							52						9
														13							1	
									27							29						2
									1				1	42							46	
									10							11						20
														29								2
									2126					1		12			1		4	4
											1								16			
											46		1						62		1	2
		1																				18
									8		3		**211**	2					8		1	2
									4					**1781**							47	6
														78							2	
									154							**386**						4
																						2
									2					22							136	18
									2		2		1						**399**			
									2					71						**4**	25	43
									7												**857**	4
																						18
									16		1		1	392					4	3	94	
									4					51					206		22	

SHABB4-R018

Table 12

Live Births and Abortions with Rate and Ratio Indicators by Patient's Place of Residence, Washington State 1988

County	Female Population[1]	Live Births[2]	Abortions[2]	Abortion Ratio[3]	Abortion Rate[4]	Fertility Rate[5]
State Total	1,077,249	72,263	28,939	400	27	67
Adams	3,034	259	46	178	15	85
Asotin	3,753	232	63	272	17	62
Benton	25,283	1,747	508	291	20	69
Chelan	10,412	828	298	360	29	80
Clallam	11,263	702	154	219	14	62
Clark	51,358	3,457	1,015	294	20	67
Columbia	742	52	14	269	19	70
Cowlitz	18,237	1,245	274	220	15	68
Douglas	5,534	349	50	143	9	63
Ferry	1,341	77	14	182	10	57
Franklin	7,663	773	179	232	23	101
Garfield	422	12				28
Grant	11,136	889	207	233	19	80
Grays Harbor	13,432	957	282	295	21	71
Island	11,506	932	228	245	20	81
Jefferson	3,667	230	32	139	9	63
King	351,249	21,129	12,563	595	36	60
Kitsap	39,939	2,848	944	331	24	71
Kittitas	6,347	294	155	527	24	46
Klickitat	3,487	219	34	155	10	63
Lewis	11,955	848	187	221	16	71
Lincoln	1,874	102	15	147	8	54
Mason	7,325	440	112	255	15	60
Okanogan	6,765	543	130	239	19	80
Pacific	3,176	252	59	234	19	79
Pend Oreille	1,825	125	31	248	17	68
Pierce	128,333	9,906	3,719	375	29	77
San Juan	1,965	104	54	519	27	53
Skagit	15,322	1,099	322	293	21	72
Skamania	1,757	107	27	252	15	61
Snohomish	99,895	7,361	2,417	328	24	74
Spokane	83,047	5,292	1,898	359	23	64
Stevens	6,719	398	83	209	12	59
Thurston	35,904	2,181	947	434	26	61
Wahkiakum	679	39	2	51	3	57
Walla Walla	10,384	626	200	319	19	60
Whatcom	29,137	1,667	559	335	19	57
Whitman	11,080	405	186	459	17	37
Yakima	40,302	3,537	910	257	23	88
Unknown			21			

[1] Women aged 15-44; 1988 estimates from Office of Financial Management.

[2] Women aged 15-44.

[3] Induced abortions per 1,000 resident live births, women aged 15-44.

[4] Induced abortions per 1,000 female population aged 15-44.

[5] Live births per 1,000 female population aged 15-44.

SHABB4-R002

Table 13

Induced Abortions by Age of Patient by County of Residence, Washington State 1988

County	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Totals	29,175	185	2,813	4,196	9,373	6,503	3,719	1,891	444	35	16
Adams	47	1	5	3	13	13	8	2	2		
Asotin	63		1	6	24	16	11	3	2		
Benton	512	3	63	80	138	125	55	33	14		1
Chelan	301	1	34	41	94	67	42	14	6	1	1
Clallam	156	2	20	24	50	29	17	11	3		
Clark	1,022	5	116	159	342	208	119	54	17	1	1
Columbia	14		3	2	6	2		1			
Cowlitz	277	3	41	43	91	53	30	11	5		
Douglas	50		11	8	15	12	2	1	1		
Ferry	15	1	2	3	2	6	1				
Franklin	180	1	19	29	62	43	16	8	2		
Garfield											
Grant	210	3	20	34	63	44	31	14	1		
Grays Harbor	285	3	35	47	95	60	31	12	2		
Island	229	1	27	26	86	51	26	10	2		
Jefferson	33		5	7	7	4	4	4	1	1	
King	12,651	65	1,073	1,615	3,964	2,968	1,797	941	205	18	5
Kitsap	952	6	106	154	296	186	130	62	10	2	
Kittitas	155		14	23	56	29	27	5	1		
Klickitat	34		4	1	11	5	10	2	1		
Lewis	189	2	29	28	60	40	23	6	1		
Lincoln	15		4	3	3	1	1	2	1		
Mason	112		17	21	27	20	13	11	3		
Okanogan	131	1	20	18	31	24	24	10	3		
Pacific	59		5	9	19	14	9	3			
Pend Oreille	31		7	3	9	3	4	3	2		
Pierce	3,755	29	345	564	1,320	848	416	177	49	6	1
San Juan	55		3	5	11	15	12	8		1	
Skagit	326	4	33	58	81	62	53	31	4		
Skamania	27		4	6	6	5	3	3			
Snohomish	2,438	19	253	336	789	562	298	143	36	1	1
Spokane	1,911	10	184	338	619	413	197	123	24	3	
Stevens	84	1	11	11	25	16	10	9	1		
Thurston	958	10	112	155	284	189	117	67	23	1	
Wahkiakum	2		1			1					
Walla Walla	202	1	29	38	65	37	21	8	2		1
Whatcom	562	3	51	103	186	105	56	46	12		
Whitman	188		6	43	88	25	19	4	1		2
Yakima	923	10	95	148	328	199	84	49	7		3
Unknown	21		5	4	7	3	2				

Table 14

Second Trimester Abortions by Patient's Age Group by County of Residence, Washington State 1988

County	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Totals	2,763	39	393	491	951	516	234	101	34	2	2
Adams	5		2	1	2						
Asotin	2				2						
Benton	50	1	9	8	15	11	5	1			
Chelan	29		6	1	14	4	4				
Clallam	23		3	5	7	4	3	1			
Clark	110		13	35	37	15	4	3	3		
Columbia	3			2	1						
Cowlitz	37	1	10	4	12	8	1	1			
Douglas	8		3	1	2	2					
Ferry	1		1								
Franklin	16	1		2	9	4					
Garfield											
Grant	20		3	5	6	2	3	1			
Grays Harbor	35		8	5	13	5	2	2			
Island	16	1	3	2	6	1	3				
Jefferson	5			2	1			2			
King	1,077	13	147	178	380	204	98	42	15		
Kitsap	109		14	18	40	20	12	4	1		
Kittitas	14		1	3	5	2	3				
Klickitat	1				1						
Lewis	28	1	5	6	7	7	2				
Lincoln	2		1						1		
Mason	13		4	1	4	3			1		
Okanogan	20		5	2	5	6	2				
Pacific	8		2	1	2	2	1				
Pend Oreille	3			1	1	1					
Pierce	504	9	67	95	175	95	39	16	4	2	2
San Juan	2		1		1						
Skagit	26	1	3	6	6	6	3	1			
Skamania	3			1	1	1					
Snohomish	166	5	18	29	58	33	16	6	1		
Spokane	112		16	27	27	23	11	7	1		
Stevens	6		1	2	1	1	1				
Thurston	87	2	16	10	31	16	5	5	2		
Wahkiakum	1		1								
Walla Walla	20		6	1	4	7	1	1			
Whatcom	36	1	5	6	10	5	4	1	4		
Whitman	15			4	10	1					
Yakima	148	3	19	27	54	26	11	7	1		
Unknown	2				1	1					

Table 15

Repeat Abortions by Patient's Age Group by County of Residence, Washington State 1988[1]

County	Total	Under 15	15-17	18-19	20-24	25-29	30-34	35-39	40-44	45 and Over	Unknown
State Totals	12,608	13	388	1,056	4,195	3,638	2,157	978	164	17	2
Adams	20				9	6	4	1			
Asotin	5				1	2	2				
Benton	211		5	23	63	68	30	16	6		
Chelan	129		4	8	42	36	28	10	1		
Clallam	51		1	9	18	13	7	3			
Clark	433		15	37	141	131	73	31	4		1
Columbia	5				3	2					
Cowlitz	108		6	5	42	38	13	3	1		
Douglas	16		1	2	6	5	1		1		
Ferry	2					2					
Franklin	70		2	10	23	24	9	1	1		
Garfield											
Grant	76		3	8	24	20	15	6			
Grays Harbor	101		3	10	39	31	13	5			
Island	93		2	3	38	28	17	5			
Jefferson	12		2	3	2	1	1	1	1	1	
King	6,318	7	201	492	2,011	1,827	1,134	543	90	12	1
Kitsap	409		10	37	133	106	82	38	2	1	
Kittitas	61		1	2	28	13	14	3			
Klickitat	13				3	2	6	1	1		
Lewis	64		2	3	21	21	13	4			
Lincoln	2				1		1				
Mason	53		3	3	14	14	9	9	1		
Okanogan	38		1	3	9	9	13	2	1		
Pacific	22			2	8	6	5	1			
Pend Oreille	2							1	1		
Pierce	1,642	3	38	161	600	489	248	81	20	2	
San Juan	32			2	6	8	10	6			
Skagit	137		7	13	33	36	30	18			
Skamania	17			2	5	4	3	3			
Snohomish	1,178	2	45	93	405	345	187	83	17	1	
Spokane	150		3	13	45	51	21	16	1		
Stevens	2			1	1						
Thurston	435		16	52	143	121	63	35	5		
Wahkiakum											
Walla Walla	68		2	8	20	21	12	3	2		
Whatcom	218		4	20	78	55	33	24	4		
Whitman	35			3	21	2	6	3			
Yakima	377	1	11	28	156	101	54	22	4		
Unknown					3						

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[1] Number of abortions with unreported or unknown previous abortion(s) histories was 1,885.

Table 16

Pregnancy Outcome with Rates[1] by Selected Patient Age Groups by Place of Residence, Washington State 1988

	Ages 15-44		Ages 10-14		Ages 15-17		Ages 18-19	
County and City	Total	Rate	Total	Rate	Total	Rate	Total	Rate
State Totals								
Live births	72263	67.1	97	.7	2498	26.4	5045	77.8
Fetal deaths	372	.3	3		19	.2	25	.4
Abortions[2]	28939	26.9	185	1.3	2813	29.8	4196	64.7
Total Pregnancies	101572	94.3	285	2.0	5330	56.4	9266	142.9
Adams								
Live births	259	85.4			9	27.0	24	119.4
Fetal deaths	2	.7						
Abortions	46	15.2	1	1.8	5	15.0	3	14.9
Total Pregnancies	307	101.3	1	1.8	14	42.0	27	134.3
Asotin								
Live births	232	61.8	1	1.6	11	31.9	33	146.7
Fetal deaths								
Abortions	63	16.8			1	2.9	6	26.7
Total Pregnancies	295	78.6	1	1.6	12	34.8	39	173.4
Benton								
Live births	1747	69.1	1	.3	64	28.9	127	86.0
Fetal deaths	14	.6					1	.7
Abortions	508	20.1	3	.8	63	28.5	80	54.2
Total Pregnancies	2269	86.8	4	1.1	127	57.4	208	140.9
Chelan								
Live births	828	79.5	3	2.0	24	25.4	54	85.3
Fetal deaths	10	1.0			1	1.1	1	1.6
Abortions	298	28.6	1	.7	34	35.9	41	64.8
Total Pregnancies	1136	109.1	4	2.7	59	62.4	96	151.7
Clallam								
Live births	702	62.3	1	.6	24	22.6	63	91.6
Fetal deaths	3	.3						
Abortions	154	13.7	2	1.2	20	18.8	24	34.9
Total Pregnancies	859	76.3	3	1.8	44	41.4	87	126.5
Clark								
Live births	3457	67.3	4	.5	123	26.4	278	94.7
Fetal deaths	13	.3						
Abortions	1015	19.8	5	.6	116	24.9	159	54.2
Total Pregnancies	4485	87.4	9	1.1	239	51.3	437	148.9
Columbia								
Live births	52	70.1			3	43.5	8	222.2
Fetal deaths								
Abortions	14	18.9			3	43.5	2	55.6
Total Pregnancies	66	89.0			6	87.0	10	277.8
Cowlitz								
Live births	1245	68.3	8	3.0	65	38.9	140	128.2
Fetal deaths	3	.2					1	.9
Abortions	274	15.0	3	1.1	41	24.6	43	39.4
Total Pregnancies	1522	83.5	11	4.1	106	63.5	184	168.5
Douglas								
Live births	349	63.1			15	29.4	19	58.8
Fetal deaths	3	.5						
Abortions	50	9.0			11	21.5	8	24.8
Total Pregnancies	402	72.6			26	50.9	27	83.6
Ferry								
Live births	77	57.4			5	39.1	8	97.6
Fetal deaths								
Abortions	14	10.4	1	4.9	2	15.6	3	36.6
Total Pregnancies	91	67.8	1	4.9	7	54.7	11	134.2
Franklin								
Live births	773	100.9	3	2.6	51	70.2	66	129.9
Fetal deaths	6	.8						
Abortions	179	23.4	1	.9	19	26.1	29	57.1
Total Pregnancies	958	125.1	4	3.5	70	96.3	95	187.0
Garfield								
Live births	12	28.4			1	23.3		
Fetal deaths								
Abortions								
Total Pregnancies	12	28.4			1	23.3		
Grant								
Live births	889	79.8	1	.5	51	43.9	75	101.9
Fetal deaths	6	.5					1	1.4
Abortions	207	18.6	3	1.6	20	17.2	34	46.2
Total Pregnancies	1102	98.9	4	2.1	71	61.1	110	149.5
Grays Harbor								
Live births	957	71.2			56	45.1	97	116.3
Fetal deaths	8	.6			1	.8		
Abortions	282	21.0	3	1.4	35	27.2	47	56.4
Total Pregnancies	1247	92.8	3	1.4	94	73.1	144	172.7
Island								
Live births	932	81.0			15	15.6	70	108.5
Fetal deaths	3	.3						
Abortions	228	19.8	1	.6	27	28.1	26	40.3
Total Pregnancies	1163	101.1	1	.6	42	43.7	96	148.8
Jefferson								
Live births	230	62.7			5	15.9	15	79.8
Fetal deaths								
Abortions	32	8.7			5	15.9	7	37.2
Total Pregnancies	262	71.4			10	31.8	22	117.0
King								
Live births	21129	60.2	17	.4	530	19.7	934	47.8
Fetal deaths	72	.2	1		1		5	.3
Abortions	12563	35.8	65	1.6	1073	39.2	1615	82.6
Total Pregnancies	33764	96.2	83	2.0	1613	58.9	2554	130.7
Kitsap								
Live births	2848	71.3	1	.2	94	27.8	234	106.6
Fetal deaths	19	.5			1	.3	1	.5
Abortions	944	23.6	6	1.0	106	31.3	154	70.2
Total Pregnancies	3811	95.4	7	1.2	201	59.4	389	177.3
Kittitas								
Live births	294	46.3	1	1.5	7	10.1	13	23.3
Fetal deaths	2	.3						
Abortions	155	24.4			14	20.3	23	41.1
Total Pregnancies	451	71.0	1	1.5	21	30.4	36	64.4
Klickitat								
Live births	219	62.8	2	3.4	6	18.3	23	115.6
Fetal deaths	5	1.4						
Abortions	34	9.8			4	12.2	1	5.0
Total Pregnancies	258	74.0	2	3.4	10	30.5	24	120.6
Lewis								
Live births	848	70.9	1	.5	41	33.3	98	127.9
Fetal deaths	4	.3					1	1.3
Abortions	187	15.6	2	1.0	29	23.6	28	36.6
Total Pregnancies	1039	86.8	3	1.5	70	56.9	127	165.8
Lincoln								
Live births	102	54.4					3	27.5
Fetal deaths								
Abortions	15	8.0			4	21.4	3	27.5
Total Pregnancies	117	62.4			4	21.4	6	55.0
Mason								
Live births	440	60.1	2	1.8	23	32.3	49	108.2
Fetal deaths	3	.4						
Abortions	112	15.3			17	23.9	21	46.4
Total Pregnancies	555	75.8	2	1.8	40	56.2	70	154.6
Okanogan								
Live births	543	80.3			32	51.4	51	132.1
Fetal deaths	1	.1						
Abortions	130	19.2	1	.9	20	32.1	18	46.6
Total Pregnancies	674	99.6	1	.9	52	83.5	69	178.7
Pacific								
Live births	252	79.3			13	42.5	19	99.0
Fetal deaths	1	.3						
Abortions	59	18.6			5	16.3	9	46.9
Total Pregnancies	312	98.2			18	58.8	28	145.9
Pend Oreille								
Live births	125	68.5			7	36.8	19	177.6
Fetal deaths								
Abortions	31	17.0			7	36.8	3	28.0
Total Pregnancies	156	85.5			14	73.6	22	205.6
Pierce								
Live births	9906	77.2	11	.6	353	30.0	816	98.0
Fetal deaths	58	.5			6	.5	3	.4
Abortions	3719	29.0	29	1.7	345	29.3	564	67.7
Total Pregnancies	13681	106.7	40	2.3	704	59.8	1383	166.1
San Juan								
Live births	104	52.9			1	7.9	1	13.0
Fetal deaths								
Abortions	54	27.5			3	23.6	5	64.9
Total Pregnancies	158	80.4			4	31.5	6	77.9
Skagit								
Live births	1099	71.7	1	.5	47	33.1	90	97.8
Fetal deaths	10	.7					1	1.1
Abortions	322	21.0	4	1.8	33	23.3	58	63.0
Total Pregnancies	1431	93.4	5	2.3	80	56.4	149	161.9
Skamania								
Live births	107	60.9			9	53.3	4	37.7
Fetal deaths								
Abortions	27	15.4			4	23.7	6	56.6
Total Pregnancies	134	76.3			13	77.0	10	94.3
Snohomish								
Live births	7361	73.7	4	.3	180	20.7	459	80.9
Fetal deaths	33	.3	1	.1	2	.2	4	.7
Abortions	2417	24.2	19	1.3	253	29.1	336	59.2
Total Pregnancies	9811	98.2	24	1.7	435	50.0	799	140.8
Spokane								
Live births	5292	63.7	6	.5	192	24.7	428	78.8
Fetal deaths	38	.5			1	.1	3	.6
Abortions	1898	22.9	10	.9	184	23.7	338	62.1
Total Pregnancies	7228	87.1	16	1.4	377	48.5	769	141.3
Stevens								
Live births	398	59.2			19	31.9	41	118.5
Fetal deaths	3	.4						
Abortions	83	12.4	1	.8	11	18.5	11	31.8
Total Pregnancies	484	72.0	1	.8	30	50.4	52	150.3
Thurston								
Live births	2181	60.7	5	1.0	77	24.4	166	80.4
Fetal deaths	11	.3			3	1.0		
Abortions	947	26.4	10	2.0	112	35.5	155	75.1
Total Pregnancies	3139	87.4	15	3.0	192	60.9	321	155.5
Wahkiakum								
Live births	39	57.4			2	28.6	3	75.0
Fetal deaths								
Abortions	2	2.9			1	14.3		
Total Pregnancies	41	60.3			3	42.9	3	75.0
Walla Walla								
Live births	626	60.3	3	2.1	30	26.1	49	60.6
Fetal deaths	3	.3			1	.9		
Abortions	200	19.3	1	.7	29	25.2	38	47.0
Total Pregnancies	829	79.9	4	2.8	60	52.2	87	107.6
Whatcom								
Live births	1667	57.2	4	1.1	56	21.7	97	48.4
Fetal deaths	8	.3			1	.4	1	.5
Abortions	559	19.2	3	.8	51	19.1	103	51.4
Total Pregnancies	2234	76.7	7	1.9	110	41.2	201	100.3
Whitman								
Live births	405	36.6			6	4.4	16	12.9
Fetal deaths	2	.2						
Abortions	186	16.8			6	4.4	43	34.6
Total Pregnancies	593	53.6			12	8.8	59	47.5
Yakima								
Live births	3537	87.8	17	2.7	239	58.2	355	136.1
Fetal deaths	28	.7	1	.2	1	.2	2	.8
Abortions	910	22.6	10	1.6	95	23.2	148	56.7
Total Pregnancies	4475	111.1	28	4.5	334	81.6	505	193.6

[1] Number of events (live births, fetal deaths, abortions, total reported pregnancies) per 1,000 female population in each age group.

[2] Total abortions includes 21 for which county of residence was unknown.

SHABB4-R019

Table 17

Resident Abortion Rates[1] with Ranks for Washington State Counties, 1984-1988

	1984		1985		1986		1987		1988	
Rank	County	Rate	County	Rate	County	Rate	County	Rate	County	Rate
1	King	33.6	King	32.1	King	34.4	King	37.0	King	35.8
2	Chelan	30.5	Kittitas	27.5	Pierce	28.3	Pierce	29.2	Pierce	29.0
3	Thurston	29.6	Pierce	27.2	Thurston	26.5	Chelan	27.2	Chelan	28.6
4	Pierce	29.0	Thurston	26.9	Kittitas	25.7	Thurston	25.8	San Juan	27.5
5	Kittitas	26.7	Chelan	26.4	Franklin	24.5	Snohomish	25.4	Thurston	26.4
6	Grays Harbor	26.0	Adams	24.6	Chelan	24.4	Grays Harbor	24.9	Kittitas	24.4
7	Whatcom	23.0	Clark	23.8	Grant	24.1	Kittitas	24.6	Snohomish	24.2
8	Benton	22.8	Walla Walla	23.7	Spokane	22.9	Kitsap	23.3	Kitsap	23.6
9	Franklin*	22.8	Franklin	23.5	Grays Harbor	22.8	Franklin	22.7	Franklin	23.4
10	San Juan	22.4	Grays Harbor	22.9	Benton	22.0	Spokane	22.5	Spokane	22.9
11	Spokane	22.2	Spokane*	22.9	Yakima	21.0	Skagit	22.2	Yakima	22.6
12	Grant	22.0	Grant	21.6	Walla Walla	20.3	Yakima	22.1	Grays Harbor	21.0
13	Walla Walla	21.7	Benton	21.2	Skagit	19.5	Grant	21.5	Skagit*	21.0
14	Clark	21.5	Whatcom	20.5	Kitsap	19.3	Benton	20.8	Benton	20.1
15	Skagit*	21.5	Yakima*	20.5	Clark	19.2	San Juan	20.6	Clark	19.8
16	Whitman	21.4	Columbia	20.2	Okanogan	18.8	Walla Walla	19.7	Island*	19.8
17	Island	21.0	Asotin	19.4	Snohomish	18.7	Whatcom	19.0	Walla Walla	19.3
18	Okanogan*	21.0	Lewis	19.2	Whatcom	18.3	Clark	18.2	Okanogan	19.2
19	Yakima	20.8	Island	19.1	Whitman	18.0	Island	16.7	Whatcom*	19.2
20	Kitsap	20.7	Skagit	18.3	Columbia	17.5	Lewis	16.3	Columbia	18.9
21	Asotin	19.9	Kitsap	17.1	Lewis	17.2	Okanogan	16.2	Grant	18.6
22	Pacific	19.6	Whitman	17.0	Asotin	17.0	Mason	15.1	Pacific*	18.6
23	Adams	19.1	Snohomish	16.2	Island	16.8	Pend Oreille*	15.1	Pend Oreille	17.0
24	Mason	18.9	Mason	15.1	Adams	16.5	Garfield	14.3	Asotin	16.8
25	Lewis	18.7	Pacific*	15.1	Mason*	16.5	Whitman	14.1	Whitman*	16.8
26	Snohomish	16.7	Pend Oreille	14.8	San Juan	14.2	Ferry	13.6	Lewis	15.6
27	Columbia	16.2	Okanogan	13.8	Ferry	12.6	Columbia	13.5	Skamania	15.4
28	Wahkiakum	14.9	Douglas	12.3	Lincoln	11.7	Asotin	13.1	Mason	15.3
29	Cowlitz	14.2	Stevens*	12.3	Pend Oreille*	11.7	Cowlitz	12.9	Adams	15.2
30	Klickitat	13.8	Skamania	12.0	Cowlitz	11.3	Wahkiakum*	12.9	Cowlitz	15.0
31	Skamania	13.2	Cowlitz	10.7	Pacific	11.2	Pacific	12.7	Clallam	13.7
32	Douglas	13.1	San Juan	10.4	Klickitat	11.1	Adams	12.5	Stevens	12.4
33	Ferry	10.4	Klickitat	10.2	Skamania	11.0	Lincoln	12.2	Ferry	10.4
34	Garfield	9.2	Ferry	9.6	Stevens	9.4	Stevens	12.0	Klickitat	9.8
35	Pend Oreille	8.5	Clallam	8.6	Douglas	9.3	Douglas	11.1	Douglas	9.0
36	Clallam	8.2	Lincoln	8.5	Clallam	8.8	Skamania	11.0	Jefferson	8.7
37	Stevens	7.9	Jefferson	7.5	Jefferson	5.3	Klickitat	9.8	Lincoln	8.0
38	Jefferson	7.7	Wahkiakum	7.0	Garfield	4.6	Clallam	9.5	Wahkiakum	2.9
39	Lincoln	6.9	Garfield	6.9	Wahkiakum	1.4	Jefferson	8.6	Garfield	—

[1] Abortions per 1,000 female population aged 15-44.

*Tied in rank with county or counties above.

MARRIAGES
AND
DISSOLUTIONS

S02370A-HMA

Table 1

Marriage by County of Marriage by Bride and Groom Age Group, Washington State Occurrences 1988

County		Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99	Unk
State Total	Bride	44,922	4	4,860	13,486	10,102	6,383	4,069	2,572	1,398	656	373	345	244	164	103	31	7	125
	Groom	44,922		1,725	11,616	11,418	7,236	4,590	3,146	1,889	1,096	696	436	371	271	165	64	24	179
Adams	Bride	92		18	34	16	10	1	3	2	1	1	2	2			1		1
	Groom	92		5	33	22	10	8	4	1	1	3			1	2		1	1
Asotin	Bride	109		22	35	23	8	9	2	3	1	2	2	1	1				
	Groom	109		10	31	23	12	12	9	1	5	2		3	1				
Benton	Bride	913		135	310	210	98	68	36	28	12	6	4	3	1	1			1
	Groom	913		62	276	252	114	67	53	38	15	17	10	4	3	1	1		
Chelan	Bride	669		73	177	143	94	76	41	26	13	6	7	3	4	3	2	1	
	Groom	569		22	150	151	136	78	52	24	13	13	13	5	3	4	1	2	2
Clallam	Bride	483		57	119	99	75	44	42	21	6	6	4	5	3		1		1
	Groom	483		22	107	114	83	59	34	18	11	6	11	4	10	2			2
Clark	Bride	3,613	1	407	1,011	675	534	367	268	152	56	49	39	23	15	13	1		2
	Groom	3,613		158	861	827	583	416	285	189	101	70	42	32	26	21	1	1	
Columbia	Bride	25		4	6	5	5	2	2		1								
	Groom	25		2	9	5	3	2	3	1									
Cowlitz	Bride	832		142	252	150	103	64	51	22	15	7	9	6	5	4			2
	Groom	832		67	234	191	98	66	67	41	24	11	9	7	8	4	3		2
Douglas	Bride	145		21	47	32	17	8	11	2	2	1	1	1		2			
	Groom	145		4	46	32	22	10	12	6	5	2	2	2		2			
Ferry	Bride	43		7	10	9	7	5	4	1									
	Groom	43		3	13	7	5	6	5		2	1							1
Franklin	Bride	207		34	78	27	33	13	6	5	6	1	1		1				2
	Groom	207		18	65	48	21	18	16	7		2	3	2	1	1			5
Garfield	Bride	16		2	7	5			1		1								
	Groom	16		2	5	5	1	1				1	1						
Grant	Bride	345		76	103	67	31	29	21	4	5	4	3		1	1			
	Groom	345		33	112	77	44	30	17	9	6	2	3	3	4	2	1		2
Grays Harbor	Bride	668		97	197	130	83	57	40	26	19	6	5	3	3		2		
	Groom	668		31	179	163	87	69	50	20	26	8	11	8	3	3	3		7
Island	Bride	611		117	185	101	84	53	22	16	9	4	6	6	3	1			4
	Groom	611		24	225	153	73	48	33	17	11	10	3	5	6		1	1	1
Jefferson	Bride	207		9	40	38	30	43	14	14	5	3	2	1	1	2	2		3
	Groom	207		4	27	34	33	43	21	22	4	5	3	2	2	2	2		3
King	Bride	13,843		866	3,881	3,738	2,256	1,354	789	405	199	95	78	64	45	22	9	3	39
	Groom	13,843		265	2,940	3,912	2,602	1,537	1,068	583	324	208	126	90	67	42	16	6	57
Kitsap	Bride	1,859		269	552	382	272	155	122	47	21	10	12	10	3	1	1		2
	Groom	1,859		80	617	423	282	164	114	67	43	17	11	20	5	3	1	2	10
Kittitas	Bride	205		18	67	41	28	21	16	5	2	2	1	1	2		1		
	Groom	205		4	54	54	27	32	11	7	4	4	3	2	1	1		1	
Klickitat	Bride	128		19	37	18	21	13	7	8	4		1						
	Groom	128		5	30	29	19	9	14	10	4	3	1	2	1	1			
Lewis	Bride	595		120	184	91	61	58	28	16	11	6	5	4	4	3	1		3
	Groom	595		51	187	116	71	52	40	25	16	14	6	7	5	3	1	1	
Lincoln	Bride	56		3	24	12	5	4	1	3			3						1
	Groom	56		1	11	20	8	5	2		3	2	2	1	1				
Mason	Bride	288		51	73	46	34	22	25	12	5	6	2	4	4	4			
	Groom	288		20	79	52	35	32	19	13	5	5	6	8	6	3	2	1	2
Okanogan	Bride	286		44	83	55	42	22	16	7	5	5		1	3	1	1		1
	Groom	286		17	72	68	49	28	16	12	14	1	3	3	1		2		
Pacific	Bride	232		22	67	38	38	23	15	14	4	4	2	3					2
	Groom	232		7	51	66	36	23	16	11	8	6	2	1	5				
Pend Oreille	Bride	81		17	26	12	5	9	3	3	4			1					1
	Groom	81		8	17	14	16	6	7	2	5	2		2		1			1
Pierce	Bride	5,924	1	719	1,962	1,287	766	493	294	164	79	42	45	22	18	14	2		16
	Groom	5,924		250	1,838	1,489	840	551	363	215	130	80	43	40	30	23	6	2	24
San Juan	Bride	271		3	31	75	62	49	28	12	6	3		1	1				
	Groom	271		1	17	46	71	53	39	15	16	5	1	1	3	1		1	1
Skagit	Bride	761		88	219	141	113	75	47	29	15	9	9	6	4	5	1		
	Groom	761		32	172	196	106	86	55	40	20	15	7	15	7	8	1		1
Skamania	Bride	137		17	24	18	22	13	9	14	8	3	4	1	2	1	1		
	Groom	137		4	26	17	26	7	16	6	13	8	8	4		1	1		
Snohomish	Bride	3,598		390	1,079	819	491	316	217	116	50	32	30	25	10	8		1	14
	Groom	3,598		124	852	957	618	369	239	169	94	58	38	27	19	12	8	1	13
Spokane	Bride	2,733		313	979	598	336	207	132	68	29	20	20	9	8	3	2		9
	Groom	2,733		122	862	646	417	225	161	117	59	46	21	18	16	3	2	1	17
Stevens	Bride	202		45	55	37	28	15	5	7	1	4		3	2				
	Groom	202		14	66	36	28	20	13	10	2	4	4	2	1	2			
Thurston	Bride	1,455		176	456	298	174	129	100	44	26	12	15	13	5	3			4
	Groom	1,455		64	397	364	190	161	103	64	40	19	14	20	8	5	4		2
Wahkiakum	Bride	36		7	10	4	6		4	1		2	1						1
	Groom	36		3	5	8	4	5	2	4	1	1			1	1			1
Walla Walla	Bride	461	2	50	149	102	66	33	26	12	5	4	6	3	2				1
	Groom	461		31	129	115	68	39	34	16	7	7	3	6	4	2			
Whatcom	Bride	1,148		138	349	247	159	103	48	36	18	10	9	12	5	5	2		7
	Groom	1,148		53	285	278	185	126	72	57	27	20	8	13	11	4	3	2	4
Whitman	Bride	191		19	64	43	25	17	8	5	2		2	2	2		1	1	
	Groom	191		8	65	40	36	16	3	6	3		4	1	3	1	2	1	2
Yakima	Bride	1,454		245	504	270	161	99	68	48	10	8	15	5	6	6		1	8
	Groom	1,454		94	471	368	177	111	78	46	34	18	14	11	8	4	2		18

Table 2

Dissolutions, Annulments, and Separate Maintenance by County of Decree, Washington State 1988

County	Total	Dissolution	Annulment	Separate Maintenance	Not Stated
State Total	26,241	25,836	146	209	50
Adams	39	39			
Asotin	98	94	2		2
Benton	634	627	4	3	
Chelan	449	448	1		
Clallam	285	285			
Clark	1,327	1,314	2	10	1
Columbia	27	27			
Cowlitz	478	474	2	2	
Douglas	20	20			
Ferry	32	31	1		
Franklin	191	191			
Garfield	6	6			
Grant	235	232	3		
Grays Harbor	369	365	2	1	1
Island	346	340		6	
Jefferson	102	100	1	1	
King	7,550	7,430	34	84	2
Kitsap	696	691	2	2	1
Kittitas	86	85	1		
Klickitat	103	103			
Lewis	385	382	1	2	
Lincoln	1,130	1,115	6	9	
Mason	146	146			
Okanogan	121	121			
Pacific	99	97	2		
Pend Oreille	33	32		1	
Pierce	3,678	3,571	34	40	33
San Juan	53	53			
Skagit	447	446		1	
Skamania	52	52			
Snohomish	2,436	2,402	6	20	8
Spokane	1,777	1,759	8	10	
Stevens	124	123		1	
Thurston	957	944	4	9	
Wahkiakum	13	13			
Walla Walla	237	234	1		2
Whatcom	538	534		4	
Whitman	103	103			
Yakima	839	807	29	3	

Table 3

Dissolutions by County of Divorce by Husband's and Wife's Age Group, Washinton State Occurrences 1988

County		Total	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85-99	Unk
State Total	Wife	25,836	1	280	3,138	5,238	4,764	3,973	2,954	1,632	781	425	270	142	87	32	17	2,102	
	Husband	25,836	2	48	1,762	4,466	4,860	4,269	3,379	2,208	1,189	802	424	282	133	56	25	19	1,912
Adams	Wife	39			2	5	11	5	12	1		1							2
	Husband	39			1	2	14	4	6	1	3	2	2		1				3
Asotin	Wife	94		1	9	20	14	21	10	6	5	1	2	2					3
	Husband	94			4	19	16	24	4	9	3	7	2	2	2				2
Benton	Wife	627		6	92	123	118	108	79	39	18	9	5	2	3	1		24	
	Husband	627		3	38	122	118	120	83	58	21	27	11	5	2	3		16	
Chelan	Wife	448		5	61	102	75	69	51	27	14	5	7	4	1		1	26	
	Husband	448		1	38	95	80	76	60	29	26	15	7	5	2	2	1	11	
Clallam	Wife	285		5	32	75	55	38	31	14	5	9	5	1	1				14
	Husband	285			13	53	64	50	46	18	11	12	3	7		1	1		6
Clark	Wife	1,314		14	158	267	230	229	175	93	39	19	8	7	2		1		72
	Husband	1,314		3	84	205	247	230	202	142	62	38	23	10	5	3		1	59
Columbia	Wife	27		2	4	4	5	5	3			1	1						2
	Husband	27			1	5	3	3	4	5	2	1	1		1				1
Cowlitz	Wife	474		7	77	106	96	61	46	32	15	7	6	3	2	2	1		13
	Husband	474		1	40	102	101	62	56	42	27	12	7	7	3	4		1	9
Douglas	Wife	20			2	6	2	5	1			1							3
	Husband	20			1	3	5	4	3				1						3
Ferry	Wife	31			7	3	2	7	5	2	3		2						
	Husband	31			1	7	6	3	3	3	1	4	2	1					
Franklin	Wife	191		6	23	31	39	35	18	13	5	5	5	2					9
	Husband	191		2	13	33	31	33	24	14	9	10	4	4	1				13
Garfield	Wife	6		1				4					1						
	Husband	6			1			4						1					
Grant	Wife	232		7	36	48	48	38	22	15	2	5			4				7
	Husband	232			19	46	57	38	27	15	8	5	4	5	1	1			6
Grays Harbor	Wife	365		9	41	76	64	46	52	23	6	6	3	6	2	2			29
	Husband	365			31	59	68	48	47	37	15	14	8	9	4	1		1	23
Island	Wife	340		11	72	78	58	40	33	11	7	6	7						17
	Husband	340		1	56	75	64	45	35	19	9	9	9	2	1				15
Jefferson	Wife	100		1	10	23	14	15	8	7	4	7	3	1	1	6			
	Husband	100			4	13	20	16	13	9	5	8	2	1	4	1			4
King	Wife	7,430	1	36	632	1,413	1,450	1,222	953	507	243	148	75	24	18	8	5		695
	Husband	7,430		6	321	1,097	1,428	1,313	1,077	675	354	250	126	74	28	9	16	4	652
Kitsap	Wife	691		10	120	183	109	105	67	31	10	10	3	3	3				37
	Husband	691		2	76	163	150	79	90	55	22	16	6	3	3	1		1	24
Kittitas	Wife	85		1	12	16	12	20	10	4		2		1	1				6
	Husband	85			6	18	8	17	12	12	4			1	2	1			4
Klickitat	Wife	103		1	14	15	24	15	11	10	4	1		2	1				5
	Husband	103			10	15	13	24	12	11	8	3	1	1	1	1			3
Lewis	Wife	382		3	50	61	56	52	37	22	16	5	6	6		1			67
	Husband	382		1	21	58	56	55	52	27	23	5	7	8		2	2		65
Lincoln	Wife	1,115		11	156	269	177	194	110	83	29	14	14	7	5	3	1		42
	Husband	1,115			96	231	217	167	141	86	59	36	19	14	6	4		1	38
Mason	Wife	146		2	10	33	28	31	16	8	4	3	3	1	1				6
	Husband	146		2	5	29	28	31	15	11	6	4	8	2	1				4
Okanogan	Wife	121		1	13	30	25	11	11	9	4	5				1			11
	Husband	121		1	7	20	25	18	12	11	8	6		2				2	9
Pacific	Wife	97		2	18	17	17	14	5	2	6	2	7	1			1		5
	Husband	97			10	21	14	13	10	7	5	6	5	1	2	1			2
Pend Oreille	Wife	32			3	5	7	6	3	4		2		1					1
	Husband	32				4	4	9	1	5	2	2							5
Pierce	Wife	3,571		54	569	817	616	494	331	199	99	48	27	16	16		3		282
	Husband	3,571	2	12	367	731	666	517	413	252	153	90	41	27	19	5	3	1	272
San Juan	Wife	53			5	6	11	9	9	7	3	1	2						
	Husband	53			2	3	6	12	15	8	3	1	3						
Skagit	Wife	446		5	44	78	90	66	48	26	22	7	6	5	4		1		44
	Husband	446			20	66	80	78	61	46	21	17	8	7	3			1	38
Skamania	Wife	52		1	12	9	7	3	9	4	3	1		1					2
	Husband	52			6	8	7	7	8	7	2	4		1	1				1
Snohomish	Wife	2,402		22	297	451	457	357	286	142	73	30	24	18	9	3			233
	Husband	2,402		3	148	388	448	410	318	196	117	71	39	23	15	7		3	216
Spokane	Wife	1,759		16	221	359	349	262	220	135	46	27	15	17	5	2	2		83
	Husband	1,759		5	126	326	311	329	228	155	80	49	26	21	12	3	1	2	85
Stevens	Wife	123		1	19	16	26	17	14	5	7	4				1			13
	Husband	123		1	7	17	26	22	12	14	4	3	4		2				11
Thurston	Wife	944		12	104	148	191	130	91	51	29	6	9	4 5	1			163	
	Husband	944		1	61	129	179	145	107	66	37	25	10	14	5	1			164
Wahkiakum	Wife	13		1	1	2	2	2	3				1	1					
	Husband	13			2	1	1	4	2		1		2						
Walla Walla	Wife	234		2	36	52	39	38	16	14	11	6	4	2		2			12
	Husband	234		1	17	43	32	48	27	28	12	6	4	5		2	1		8
Whatcom	Wife	534		7	49	95	87	68	66	32	19	5	4	1	2		1		98
	Husband	534			31	79	82	76	65	45	24	21	10	6	4	1			90
Whitman	Wife	103		1	13	24	20	15	14	5	4	1	2						4
	Husband	103			6	23	19	22	8	11	5	2	3						4
Yakima	Wife	807		16	114	172	133	116	78	49	26	15	11	6	1	4			66
	Husband	807		2	72	157	166	113	80	79	37	21	16	13	2	2		1	46

Table 4

Dissolutions by Total Living Children[1] by Place of Wife's Residence[2], Washington State Occurrences 1988

County	Total	Number of Children								Eight or More	Not Stated
		0	1	2	3	4	5	6	7		
State Total	25,836	11,768	5,404	5,201	1,781	526	146	57	19	23	911
Adams	38	15	5	9	4	5					
Asotin	96	43	14	21	11	3		1			3
Benton	629	266	126	153	45	22	5				12
Chelan	318	143	62	66	20	10	4	2	3		8
Clallam	286	106	74	62	24	9					11
Clark	1,162	470	255	296	81	18	5	3		1	33
Columbia	26	10	7	5	3	1					
Cowlitz	442	205	86	93	38	6	3	1	1		9
Douglas	128	58	30	28	8	1					3
Ferry	22	13	3	1	2	1					2
Franklin	163	60	35	46	12	4	2			2	2
Garfield	4	2		1	1						
Grant	227	88	57	48	21	5	3		2		3
Grays Harbor	349	143	70	85	28	8	2		1		12
Island	318	145	73	67	13	8	1				11
Jefferson	85	40	18	20	3	1					3
King	7,271	3,592	1,412	1,386	434	130	47	17	3	4	246
Kitsap	672	305	154	135	39	16	2	1			20
Kittitas	77	36	17	14	6			1			3
Klickitat	89	38	23	18	5	2	1				2
Lewis	328	135	68	74	31	7	2			1	10
Lincoln	38	18	6	9	1	1	1				2
Mason	168	76	35	31	17	5	1				3
Okanogan	116	55	21	14	16	3				1	6
Pacific	93	32	25	18	10	2	1	1		1	3
Pend Oreille	38	16	7	9	3	2					1
Pierce	3,138	1,342	733	657	235	51	14	7	4	5	90
San Juan	52	24	13	12	1			1			1
Skagit	386	180	83	69	31	6	1	1			15
Skamania	30	10	9	7	2	2					
Snohomish	2,360	1,016	544	486	170	43	19	5	2	1	74
Spokane	1,947	835	415	427	154	49	14	3	2	1	47
Stevens	140	49	31	34	14	8	1	1			2
Thurston	821	374	177	147	60	23	2	1		1	36
Wahkiakum	10	1	3	4	1	1					
Walla Walla	200	94	40	39	18	3	2				4
Whatcom	491	196	96	117	38	14	2	2		1	25
Whitman	99	46	14	23	13	1					2
Yakima	749	316	172	161	58	16	5	3		2	16
Out-of-State	1,437	806	267	213	64	31	3	5	1	1	46
Unknown	793	369	124	96	46	8	3	1		1	145

[1] Includes all living children regardless of age.
[2] Does not include residents who obtain dissolutions outside of Washington State.

APPENDIX

Appendix A

Definitions

Abortion - The termination (spontaneous or induced) of a pregnancy before the fetus has attained viability. Where unqualified in this report, the term refers to induced abortions.

Abortion-related Complications - Complications encountered and detected at the time pregnancy termination occurs and before the abortion report is filed.

Cervical laceration - a tear wound of the cervix which requires sutures.

Failed abortion - the products of conception fail to be expelled from the uterus after induction.

Hemorrhage - copious or excessive bleeding, clinically assessed.

Infection - inflammation of the endometrium (the mucous coat of the uterus) or elevation of body temperature over 100.4 degrees for one or more days.

Retained products - retention of some of the fetal or placental tissue in the uterus after an abortion procedure. A second procedure is required for removal.

Uterine perforation - unintentional puncture of the uterine wall which requires intervention.

Birth Weight - Weight of fetus or infant at time of delivery (normally recorded in pounds and ounces).

Fetal Death - Death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy. The death is indicated by the fact that after such expulsion or extraction the fetus does not breathe or show any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Reporting of fetal deaths to the state is required only when the gestational period is twenty weeks or more.

Gestional Period - Number of weeks elapsed between the first day of the last menstrual period and date of delivery or date of pregnancy termination. The Abortion Reporting System relies upon the physician's estimate of gestational age. With current technology (i.e., ultrasound), accuracy is plus or minus 11 days.

Induced Abortion - The purposeful interruption of pregnancy, irrespective of the duration of pregnancy, with the intention other than to produce a live born infant or to remove a dead fetus, the result of which is not a live birth. Procedures for false pregnancy, ectopic pregnancy, and missed abortion (dead ovum retained in uterus in intended pregnancy) are not included.

Induced Abortion Procedures:

Dilatation And Evacuation (D&E) - dilatation of the cervical canal by means of laminaria tents (sterile dried seaweed) until the cervical opening is large enough to allow removal of the uterine contents by means of a sponge forceps or some other specially designed instrument.

Hysterectomy - removal of the uterus by surgical procedure either with the fetus inside or after the fetus is removed; usually performed when a pathological condition of the uterus, such as fibroid tumors, warrants its removal, or when a woman desires sterilization.

Hysterotomy - surgical entry into the uterus, as in a Caesarean section, to remove a fetus too immature to survive, even with extraordinary life support measures; usually performed only if other abortion measures have failed.

Prostaglandin - induction of labor resulting in the expulsion of the fetus by administration of a substance with hormone-like action, either vaginal suppository or intra-amniotic injection.

Saline - induction of labor with eventual expulsion of the fetus by insertion of a hollow needle through the abdominal wall, withdrawal of a portion of the amniotic fluid from the uterine cavity, and subsequent replacement with a concentrated salt solution.

Sharp Curettage - dilatation of the cervical canal with scraping and removal of fetal and placental tissues by use of a curette (which resembles a small spoon). Also, surgical D&C or surgical curettage.

Suction Curettage - dilatation of the cervical canal by the successive insertion of instruments of increasing diameter called dilators until the opening is large enough to insert a flexible tube (cannula) into the uterine cavity and permit the suction removal of fetal and placental tissues by an electric vacuum pump. Also, vacuum aspiration, suction D&C, or early uterine evacuation.

Infant Death - Death of a child under one year of age.

Live Birth - The complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy, which, after such expulsion or extraction, breathes, or shows any other evidence of life such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached.

Live Birth Order - Total number of live births to a given mother, including current birth.

Maternal Death - Death attributed to complications of pregnancy, childbirth, or the puerperium; includes abortion related death.

Neonatal Death - Death of an infant within the first 27 days of life.

Nulliparous - Having never given birth to a liveborn infant.

Occurrence Data - Data allocated by place where event occurred, regardless of the person's place of residence.

Parity - Previous live births; does not include current birth.

Perinatal Death - Fetal deaths plus deaths to infants within the first six days of life.

Premature Birth - A live birth weighing 2,500 grams (5-1/2 pounds) or less. If birth weight is not stated, length of gestation (under 37 weeks) is used.

Residence Data - Data allocated by place of residence of the decedent (deaths), or by place of residence of the child's mother (births, fetal deaths) or patient (abortions).

Spontaneous Abortion - An unintended interruption of pregnancy the result of which is a fetal death of any gestational age. Also, miscarriage or miscarried pregnancy.

Trimester - The duration of human pregnancy, approximately 266 days, divided by 3, resulting in three equal time periods equaling 88.67 days, or 12.67 weeks, or approximately three months, each. As a useful rule-of-thumb, gestation weeks 1 through 12 are considered the first trimester of pregnancy; weeks 13 through 24, the second trimester; and over 24 weeks, the third trimester.

Rates And Ratios

Rates and ratios are calculated by dividing the event of concern by the population at risk or a related population and multiplying by a constant (i.e. 1,000, 10,000, or 100,000). See below.

Abortion Rate - Number of abortions per 1,000 female population aged 15 to 44.

Abortion Ratio - Number of abortions per 1,000 live births.

Age-specific Rate - Number in event of concern for a specific age group per some fixed constant of population in that age group. For instance, the age-specific death rate is the number of deaths in a specific age group per 100,000 population in that age group. See different rates, i.e. fertility, pregnancy, abortion, for most typically used fixed constant in each rate.

Cause-specific Death Rate - Number of deaths from a specific cause per 100,000 population.

Complication Rate - Number of complication cases per 1,000 procedures; one case may have more than one complication.

(crude) Birth Rate - Number of live births per 1,000 population.

(crude) Death Rate - Number of deaths per 1,000 population.

Fertility Rate - Number of live births per 1,000 women, 15-44 years of age.

Fetal Death Ratio - Number of fetal deaths per 1,000 live births.

Infant Death Rate - Number of infant deaths per 1,000 live births.

Maternal Death Rate - Number of maternal deaths per 10,000 live births.

Neonatal Death Rate - Number of neonatal deaths per 1,000 live births.

Perinatal Death Rate - Number of perinatal deaths per 1,000 live births plus fetal deaths.

Pregnancy Rate - Number of total pregnancies (live births, fetal deaths, and abortions) per 1,000 female population aged 15-44.

Appendix B

Technical Notes

Reliability of the Data

In analyzing any data, the possibility of errors in the data must not be overlooked. There are several types of possible errors, including underreporting or under-registration, errors made by the informant, and errors in compilation and processing. The most potentially dangerous error, however, is probably that of improper interpretation.

Statistics are neither more true nor false than the interpretation given to them . It should be emphasized that most of the rates computed in this report are crude rates. For comparing geographic areas, crude rates are limited. They do not reflect differences in age, sex, race, and other population characteristics. In addition, it is important to recognize the possible distortion in these rates where the number of events or the population is small. Minor variations in the number of events may result in major changes in the rates. Special caution should also be exercised in analyzing trend data, because of changes throughout the years in medical diagnosis, coding definitions, and registration coverage.

Collection Year

Data for the Vital Statistics and Induced Terminations of Pregnancy report are compiled from items on birth, death, marriage, and divorce certificates, and abortion reports received before April 15, 1989. (See Appendix F for samples.)

Interstate Exchanges

Washington State is a member of the interstate exchange agreement and receives birth and death certificates of residents who have died in other states. Although, no formal agreement exists, some states have agreed to exchange abortion reports. Out-of-state marriage and divorce certificates are not exchanged.

Population

Population data in this report are an estimate of population provided by the Washington State Office of Financial Management, April 1, 1988.

Race

The race of women obtaining induced abortions, although collected, is not useful for analysis because of the large number of reported unknowns and blanks. In 1988, "unknown" was the second largest category, amounting to more than all other racial categories combined except white among reported abortions.

The determination of race on birth and death certificates follows decision rules established by the National Center for Health Statistics (NCHS).

If more than one race is listed and one is Hawaiian, Hawaiian is selected. In cases of other races, the first non-white race listed is selected.

To determine race of newborns on birth certificates, each parent's race is first established according to the previous rules. Rules to determine race of the child, then, fall along a similar pattern:

- If either parent is Hawaiian, then the child's race is considered Hawaiian.
- In cases where one parent is white and the other non-white, the non-white race is selected as the race of the child.
- If both parents are non-white, the father's race is selected except where the mother's race is Hawaiian.

Hispanic origin has been added as an ethnic category to this 1988 annual summary. It is collected as a separate item, in addition to race. In past summaries, the only Hispanic data were provided by a racial entry of "Mexican/Chicano". The data categories are not comparable and should not be used for trend analysis or year-to-year comparisons.

Occurrence Data

The validity of occurrence death data has some limitations. As the death certificate does not specify inside or outside of corporate limits for place of death, rural deaths may be incorrectly assigned to cities because the location of death was in close proximity to a city. Informants, moreover, often are unaware of city boundaries.

Cause of Death Classification

The causes of death presented herein are classified in accordance with the *International Classification of Diseases, Ninth Revision* published by the World Health Organization. The State of Washington began using this revision January 1, 1979.

Ranking of Leading Causes of Death

In the interest of comparability, this summary uses, in general, the cause of death groups established by the National Center for Health Statistics (NCHS).

Life Expectancy

Life expectancy is based on 1988 crude mortality rates.

Low Birth Weight

Traditionally, low birth weight has been defined as 2,500 grams or less. However, the *International Classification of Diseases, Ninth Revision* (ICD-9) redefines low birth weight as less than 2,500 grams. Thus, 2,500 grams should now be included with the normal birth weight category. The impact of this change is minimal in the United States, where most weights are given in pounds and ounces. No weight of pounds and ounces converts exactly to 2,500 grams (5lb, 8oz is 2,495g and 5lb 9oz is 2,523g). It is, therefore, unlikely that many weights of 2,500 grams are recorded. In fact, none were found in a study of 1984 Washington State births. In the interests of consistency with past data, Washington State has chosen to continue including 2,500 grams with the low birth weight category.

Abortion Complications

Complication totals and rates of abortion procedures should be interpreted with some caution. Some incomplete reporting could have resulted where followup care was carried out after reports were filed or by another physician. In addition, when comparing total rates between years, differences in forms and data processing rules may create artificial changes. In 1988, minor complaints reported by physicians among "Other Complications" were not suppressed as in previous years. These were items, such as "unexplained pain" or "hemorrhage less than or equal to 500 cc."

Rounding

Rates are rounded to the nearest tenth. When the rate or percent is less than one-tenth, the entry is 0. Where whole numbers are used, a blank indicates none or zero.

Appendix C

Conversion of Birth Weight in Grams to Pounds and Ounces

Gramweight	Pounds and Ounces
1,000 grams and under	2 lbs. 3 oz. and less
1,001 - 1,500	2 lbs. 4 oz. - 3 lbs. 4 oz.
1,501 - 2,000	3 lbs. 5 oz. - 4 lbs. 6 oz.
2,001 - 2,500	4 lbs. 7 oz. - 5 lbs. 8 oz.
2,501 - 3,000	5 lbs. 9 oz. - 6 lbs. 9 oz.
3,001 - 3,500	6 lbs. 10 oz. - 7 lbs. 11 oz.
3,501 - 4,000	7 lbs. 12 oz. - 8 lbs. 13 oz.
4,001 - 4,500	8 lbs. 14 oz. - 9 lbs. 14 oz.
4,501 grams and over	9 lbs. 15 oz. and over

One pound = 453.59 grams

Appendix D

S02520-2

Population of the State of Washington by Age Group by Sex, April 1, 1988

Age Group	Total	Male	Female
Total	4,565,000	2,274,453	2,290,547
Under 1 Year	70,329	36,196	34,133
1 - 4	275,309	141,052	134,257
5 - 14	637,895	326,359	311,536
15 - 19	326,863	167,519	159,344
20 - 24	337,341	173,188	164,153
25 - 34	808,638	417,652	390,986
35 - 44	731,447	368,681	362,766
45 - 54	456,936	233,853	223,083
55 - 64	379,192	183,337	195,855
65 - 74	319,113	145,774	173,339
75 - 84	166,945	65,185	101,760
85 and Over	54,992	15,657	39,335

Appendix E

S02530A

Population, State of Washington, Counties, and Cities of 10,000 Population and Over, April 1, 1988

	City Total	County Total
Adams		14,000
Asotin		17,400
Benton		104,100
Kennewick	37,180	
Richland	30,140	
Chelan		49,700
Wenatchee	18,860	
Clallam		54,400
Port Angeles	17,350	
Clark		214,500
Vancouver	43,290	
Columbia		4,100
Cowlitz		80,500
Kelso	10,880	
Longview	29,560	
Douglas		24,100
Ferry		6,100
Franklin		35,500
Pasco	18,430	
Garfield		2,400
Grant		52,600
Moses Lake	10,650	
Grays Harbor		63,400
Aberdeen	17,130	
Island		53,400
Oak Harbor	14,410	
Jefferson		18,600
King		1,413,900
Auburn	30,790	
Bellevue	85,180	
Des Moines	14,120	
Kent	32,350	
Kirkland	35,820	
Mercer Island	20,690	
Redmond	31,710	
Renton	36,940	
Seattle	495,900	
Kitsap		177,300
Bremerton	37,050	
Kittitas		25,000
Ellensburg	11,500	
Klickitat		16,600
Lewis		57,400
Centralia	11,850	
Lincoln		9,700
Mason		36,800
Okanogan		31,700
Pacific		17,600
Pend Oreille		8,800
Pierce		547,700
Puyallup	20,840	
Tacoma	161,400	
San Juan		9,600
Skagit		70,800
Anacortes	10,320	
Mount Vernon	14,590	
Skamania		8,000
Snohomish		409,500
Edmonds	28,500	
Everett	60,920	
Lynnwood	25,420	
Mountlake Terrace	16,290	
Spokane		354,100
Spokane (city)	170,200	
Stevens		30,200
Thurston		149,300
Lacey	16,380	
Olympia	30,270	
Wahkiakum		3,500
Walla Walla		48,300
Walla Walla (city)	25,440	
Whatcom	119,100	
Bellingham	46,610	
Whitman		39,000
Pullman	22,230	
Yakima		186,300
Yakima (city)	49,470	
State Total		4,565,000

Appendix F

TYPE OR PRINT IN PERMANENT BLACK INK

FOR INSTRUCTIONS SEE HANDBOOK

22248 M T T T T T

STATE OF WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES
VITAL RECORDS

CERTIFICATE OF DEATH

LOCAL FILE NUMBER

146-8

STATE FILE NUMBER

OFFICE USE ONLY

1 DISTRICT
2 COPIES
3 HOSPITAL
4 OCCURRENCE
5 RESIDENCE
6 TRACT
7 OCCUPATION
8
9
10
11
12
13
14
15
16
17
18
19
20
21 ACC LOC
22 QUERIES
23
24

DECEDENT

1. NAME—FIRST, MIDDLE, LAST
2. SEX
3. DEATH DATE (Mo., Day, Yr.)
4. AGE—LAST BIRTHDAY (Yrs.)
5. UNDER 1 YEAR MOS. DAYS
6. UNDER 1 DAY HOURS MINS.
7. BIRTHDATE (Mo., Day, Yr.)
8. COUNTY OF DEATH
9. CITY, TOWN OR LOCATION OF DEATH
10. PLACE OF DEATH — X BOX FOR PLACE THEN GIVE ADDRESS OR INSTITUTION NAME
1. ☐ HOME 2. ☐ IN TRANSPORT 3. ☐ EMERG. RM/OUT PTN. 4. ☐ HOSP. 5. ☐ NURS. HOME 6. ☐ OTHER PLACE
11. BIRTH STATE (If not in USA give country)
12. MARRIED, NEVER MARRIED, WIDOWED, DIVORCED
13. SPOUSE (If Wife give Maiden Surname)
14. WAS DECEDENT EVER IN U.S. ARMED FORCES? (Yes/No)
15. SOCIAL SECURITY NO.
16. HIGH SCHOOL GRADUATE (Yes/No)
17. USUAL OCCUPATION (Give kind of work done during most of working life even if retired.)
18. KIND OF BUSINESS OR INDUSTRY
19. RACE (White, Black, Am. Ind., etc. Specify)
20. Was Decedent of Hispanic Origin? (specify Yes or No—if yes, specify Cuban, Mexican, Puerto Rican, etc.)
1. ☐ Yes 2. ☐ No (specify)
21. SMOKING IN LAST 15 YEARS (Yes/No)
22. RESIDENCE—NUMBER AND STREET
23. CITY/TOWN, OR LOCATION
24. INSIDE CITY LIMITS? (Yes/No)
25. COUNTY
26. STATE
27. ZIP CODE

PARENTS

28. FATHER'S NAME—FIRST, MIDDLE, LAST
29. MOTHER'S NAME—FIRST, MIDDLE, MAIDEN SURNAME
30. INFORMANT—NAME
31. MAILING ADDRESS STREET OR RFD NO. CITY OR TOWN STATE ZIP

Disposition

32. BURIAL, CREMATION, REMOVAL, OTHER (Specify)
33. DATE (Mo., Day, Yr.)
34. CEMETERY/CREMATORY—NAME
35. LOCATION—CITY/TOWN STATE
36. FUNERAL DIRECTOR SIGNATURE
X
37. NAME OF FACILITY
38. ADDRESS OF FACILITY

CERTIFIER

TO BE COMPLETED ONLY BY CERTIFYING PHYSICIAN

39. TO THE BEST OF MY KNOWLEDGE, DEATH OCCURRED AT THE TIME, DATE, AND PLACE AND DUE TO THE CAUSE(S) STATED.

SIGNATURE AND TITLE
X

40. DATE SIGNED (Mo., Day, Yr.)
41. HOUR OF DEATH (24 Hrs.)

TO BE COMPLETED ONLY BY MEDICAL EXAMINER OR CORONER

43. ON THE BASIS OF EXAMINATION AND/OR INVESTIGATION, IN MY OPINION DEATH OCCURRED AT THE TIME, DATE AND PLACE AND DUE TO THE CAUSE(S) STATED.

SIGNATURE AND TITLE
X

44. DATE SIGNED (Mo., Day, Yr.)
45. HOUR OF DEATH (24 Hrs.)
42. NAME AND TITLE OF ATTENDING PHYSICIAN IF OTHER THAN CERTIFIER (Type or Print)
46. PRONOUNCED DEAD (Mo., Day, Yr.)
47. HOUR PRONOUNCED DEAD (24 Hrs.)
48. NAME AND ADDRESS OF CERTIFIER—PHYSICIAN, MEDICAL EXAMINER OR CORONER (Type or Print)

CAUSE OF DEATH

49. PART I. ENTER THE DISEASES, INJURIES, OR COMPLICATIONS WHICH CAUSED THE DEATH. DO NOT ENTER THE MODE OF DYING, SUCH AS CARDIAC OR RESPIRATORY ARREST, SHOCK, OR HEART FAILURE. LIST ONLY ONE CAUSE ON EACH LINE.

IMMEDIATE CAUSE (Final disease or condition resulting in death). Sequentially list conditions, if any, leading to immediate cause. Enter UNDERLYING CAUSE (Disease or injury which initiated events resulting in death) LAST

(A) INTERVAL BETWEEN ONSET AND DEATH

DUE TO, OR AS A CONSEQUENCE OF:

(B) INTERVAL BETWEEN ONSET AND DEATH

DUE TO OR AS A CONSEQUENCE OF:

(C) INTERVAL BETWEEN ONSET AND DEATH

50. OTHER SIGNIFICANT CONDITIONS—CONDITIONS CONTRIBUTING TO DEATH BUT NOT RELATED TO CAUSE GIVEN ABOVE
51. AUTOPSY? (Yes, No)
52. WAS CASE REFERRED TO MEDICAL EXAMINER OR CORONER) (Yes/No)
53. ACC. SUICIDE, HOM., UNDET., OR PENDING INVEST. (Specify)
54. INJURY DATE (Mo., Day, Yr.)
55. HOUR OF INJURY (24 Hrs.)
56. DESCRIBE HOW INJURY OCCURRED
57. INJURY AT WORK? (Yes/No)
58. PLACE OF INJURY—AT HOME, FARM, STREET, FACTORY, OFFICE BLDG. ETC. (Specify)
59. LOCATION—STREET OR RFD NO., CITY/TOWN, STATE
60. REGISTRAR SIGNATURE
X
61. DATE RECEIVED (Mo., Day, Yr.)

FOR STATE REGISTRAR USE ONLY

62. ITEM DOCUMENTARY EVIDENCE: REVIEWED BY: DATE:
63. ITEM DOCUMENTARY EVIDENCE: REVIEWED BY: DATE

SAMPLE

VITAL RECORDS USE ONLY
A. DISTRICT
B. COPIES
C. HOSPITAL
D. OCCURRENCE
E. RESIDENCE
F.
G.
H. TRACT
I.
J.
K.
L.
M.
N.
O. F. OCCUP
P. M. OCCUP
Q.
R.
S.
T.
U.
V.
W.
X.
Y.
Z.
AA. QUERIES
BB.
CC.

075402 -88

STATE OF WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES
VITAL RECORDS

146-8

CERTIFICATE OF LIVE BIRTH

LOCAL FILE NUMBER

STATE FILE NUMBER

1. CHILD'S NAME First Middle Last
2. SEX
3. DATE OF BIRTH MO. DAY YR.
4. HOUR

5. TYPE OF BIRTHPLACE (SPECIFY TYPE)
☐ 1 HOSPITAL ☐ 3 BIRTH CENTER ☐ 5 HOME
☐ 2 ENROUTE ☐ 4 OTH. MED. FACIL. ☐ 6 OTHER

6. NAME OF FACILITY (IF NOT A FACILITY ENTER NAME OF PLACE AND ADDRESS
7. CITY/TOWN/LOCATION
8. COUNTY OF BIRTH

9. I CERTIFY THAT THE STATED INFORMATION CONCERNING THIS CHILD IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF
X
10. DATE SIGNED MO. DAY YR.
11. NAME, TITLE OF ATTENDANT AT BIRTH IF OTHER THAN CERTIFIER (TYPE OR PRINT)

12. CERTIFIER — NAME AND TITLE (Type or print)
13. MAILING ADDRESS (STREET/BOX NO. CITY, STATE, ZIP CODE)

14. FATHER'S NAME First Middle Last
15. AGE (AT TIME OF THIS BIRTH)
16. STATE OF BIRTH (IF NOT USA GIVE COUNTRY)

17. MOTHER'S NAME First Middle MAIDEN
18. AGE (AT TIME OF THIS BIRTH)
19. STATE OF BIRTH (IF NOT USA GIVE COUNTRY)

20. RESIDENCE (NUMBER AND STREET)
21. CITY/TOWN/LOCATION
22. INSIDE CITY LIMITS (YES/NO)
23. COUNTY
24. STATE

25. MOTHER'S MAILING ADDRESS (IF SAME AS ABOVE ENTER ZIP CODE ONLY)

26. NAME OF INFORMANT (TYPE OR PRINT)
27. RELATION TO CHILD

28. DATE RECEIVED BY LOCAL REGISTRAR
29. REGISTRAR (SIGNATURE)
30. DATE RECEIVED BY STATE REGISTRAR

31. RECORD AMENDMENT (STATE REGISTRAR USE ONLY)

ITEM	DOCUMENTARY EVIDENCE	REVIEWED BY	DATE	ITEM	DOCUMENTARY EVIDENCE	REVIEWED BY	DATE

TYPE OR PRINT LEGAL PORTION IN PERMANENT BLACK INK

CONFIDENTIAL INFORMATION FOR MEDICAL AND HEALTH USE ONLY—DETACHED FROM CERTIFICATE BEFORE PERMANENT FILING.

FATHER
32A. RACE (White, Black, American Indian, etc.) (specify)
32B. OF HISPANIC ORIGIN? (Specify yes or no) If yes, specify Cuban, Mexican, Puerto Rican, etc. 1. ☐ Yes 2. ☐ No
33. OCCUPATION (Indicate most recent employment) (fruit packer, cashier, registered nurse) (specify)
34. TYPE OF BUSINESS OR INDUSTRY (paper mill, hwy. construction, nuclear)

MOTHER
35A. RACE (White, Black, American Indian, etc.) (specify)
35B. OF HISPANIC ORIGIN? (Specify yes or no) If yes, specify Cuban, Mexican, Puerto Rican, etc. 1. ☐ Yes 2. ☐ No
36. OCCUPATION (Indicate most recent employment) (fruit picker, cashier, registered nurse) (specify)
37. TYPE OF BUSINESS OR INDUSTRY (apple orchard, retail sales, hospital) (specify)
38. IS MOTHER MARRIED? ☐ Yes ☐ No

39. PRIOR LIVE BIRTHS (DO NOT INCLUDE THIS BIRTH)
☐ NONE

	NOW LIVING	NOW DEAD
37 WEEKS OR MORE (Full term)		
LESS THAN 37 WEEKS (Premature)		

DATE LAST LIVE BIRTH (Mo. Yr.)

40. OTHER PREGNANCY OUTCOMES (NOT LIVE BIRTHS)
☐ NONE

	SPONTANEOUS	INDUCED (Any Gest. Age)
37 WEEKS OR MORE		
20-36 WEEKS		
LESS THAN 20 WEEKS		

DATE LAST OTHER PREGNANCY OUTCOME (Mo. Yr.)

41. TOTAL PRIOR PREGNANCIES
42. DATE LAST NORMAL MENSES BEGAN Mo. Day Yr.

43. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1st, 2nd, 3rd, etc.)
44. TOTAL NUMBER OF PRENATAL VISITS (If none, enter 0)
45. AMNIOCENTESIS (Indicate Trimester) ☐ 1st ☐ 2nd ☐ 3rd ☐ Not done ☐ Unknown
46. DID MOTHER SMOKE AT ANY TIME DURING PREGNANCY? ☐ Yes ☐ No ☐ Unknown

47. THIS BIRTH (single, twin, etc.)
48. IF NOT SINGLE (Born 1st, 2nd, etc.)
49. BIRTH WEIGHT
50. APGAR SCORE 1 Min 5 Min
51. WAS BABY TRANSFERRED TO ANOTHER FACILITY? ☐ Yes ☐ No ☐ Unknown

CHECK ALL BOX(ES) IN EACH COLUMN THAT APPLY

52. COMPLICATIONS DURING OR RELATED TO PREGNANCY (MATERNAL)
☐ 0 None
☐ 1 Diabetes (gestational)
☐ 2 Diabetes (established)
☐ 3 Chronic hypertension
☐ 4 Pyelonephritis
☐ 5 Epilepsy
☐ 6 Preeclampsia
☐ 7 Eclampsia
☐ 8 Rh sensitization
☐ 9 Herpes-Active___ Hx___
☐ 10 Syphilis
☐ 11 Rubella
☐ 12 Polyhydramnios
☐ 13 Other (specify)

53. COMPLICATIONS OF LABOR
☐ 0 None
☐ 1 Abruptio placenta
☐ 2 Placenta previa
☐ 3 Rupture of uterus
☐ 4 Cord prolapse
☐ 5 Membranes ruptured > 24hrs.
☐ 6 Breech
☐ 7 Cephalopelvic disproportion
☐ 8 Prolonged labor
☐ 9 Augmented labor
☐ 10 Other (specify below)

54. METHOD OF DELIVERY
☐ 1 Spontaneous
☐ 2 Vacuum extraction
☐ 3 Outlet forceps
☐ 4 Induced labor
☐ 5 Primary C-section
☐ 6 Repeat C-section
☐ 7 Vaginal delivery after previous C-section
☐ 8 Other (specify below)

55. CONDITIONS OF NEWBORN
☐ 0 None
☐ 1 Hyaline membrane/RDS
☐ 2 Sepsis (documented)
☐ 3 Seizures
☐ 4 Fetal distress/asphyxia
☐ 5 Erb's palsy
☐ 6 Other birth injuries (specify below)
☐ 7 Hemolytic disease
☐ 8 Fetal alcohol syndrome
☐ 9 Jaundice (bilirubin > 10)
☐ 10 Other (specify below)

56. CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD
☐ 0 None
☐ 1 Anencephalus
☐ 2 Spina bifida, meningocele
☐ 3 Hydrocephalus
☐ 4 Microcephalus
☐ 5 Patent ductus arteriosus
☐ 6 Other heart malformations (specify below)
☐ 7 Cleft lip
☐ 8 Cleft palate
☐ 9 Anal atresia/stenosis
☐ 10 T.E. fistula, esophageal atresia
☐ 11 Hypospadias
☐ 12 Omphalocele
☐ 13 Polydactyly
☐ 14 Syndactyly
☐ 15 Adactyly
☐ 16 Other limb reduction
☐ 17 Congenital dislocation of hip
☐ 18 Club foot
☐ 19 Down's syndrome
☐ 20 Other malformations (specify below)

DSHS 9-192 (Rev. 1/88) -913- 3

FOR SPECIFIC ITEM INSTRUCTIONS SEE HOSPITAL HANDBOOK

SAMPLE

VITAL RECORDS USE ONLY
A. DISTRICT
B. COPIES
C. HOSPITAL
D. OCCURRENCE
E. RESIDENCE
F.
G.
H. TRACT
I.
J.
K.
L.
M.
N.
O. F-OCCUP
P. M-OCCUP
Q.
R.
S.
T.
U.
V.
W.
X.
Y.
Z.
AA. QUERIES
BB.
CC.

TYPE OR PRINT ENTIRE FORM IN PERMANENT BLACK INK

STATE OF WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES
VITAL RECORDS

CERTIFICATE OF FETAL DEATH

-88
LOCAL FILE NUMBER

146-8
STATE FILE NUMBER

FETUS

1. FETUS NAME—FIRST MIDDLE LAST
2. SEX
3. DATE OF DELIVERY (Mo.-Day-Yr.)
4. HOUR
5. PLACE OF DELIVERY (specify type) ☐ 1 Hospital ☐ 2 Enroute ☐ 3 Birth Center ☐ 4 Oth Med Facil ☐ 5 Home ☐ 6 Other
6. NAME OF FACILITY/IF NOT A FACILITY ENTER NAME OF PLACE AND ADDRESS
7. CITY/TOWN/LOCATION
8. COUNTY OF DELIVERY

CAUSE FETAL DEATH

9. PART I (enter only one cause per line for (A), (B), AND (C))
Fetal or Maternal condition directly causing fetal death. A IMMEDIATE CAUSE
Fetal and/or Maternal conditions, if any, giving rise to the immediate cause (A) stating the underlying cause last. B DUE TO, OR AS A CONSEQUENCE OF
C DUE TO, OR AS A CONSEQUENCE OF
10. SPECIFY FETAL OR MATERNAL
11. PART II. OTHER SIGNIFICANT CONDITIONS OF FETUS OR MOTHER. Conditions contributing to Fetal Death but not related to cause given in Part (A)
12. FETUS DIED ☐ 1 Before Labor ☐ 2 During Labor ☐ 3 During Delivery ☐ 4 Unknown
13. AUTOPSY ☐ YES ☐ NO

CERTIFIER

14. I CERTIFY THAT THE STATED INFORMATION CONCERNING THIS FETUS IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF
X
15. DATE SIGNED (Mo-Day-Yr)
16. NAME, TITLE ATTENDANT AT DELIVERY IF OTHER THAN CERTIFIER (Type or Print)
17. CERTIFIER NAME AND TITLE (Type or Print)
18. MAILING ADDRESS (Street, Box Number, City, State, Zip)

PARENTS

19. FATHER'S NAME—FIRST MIDDLE LAST
20. AGE (At Time of This Delivery)
21. STATE OF BIRTH (If not U.S. give country)
22. MOTHER'S NAME—FIRST MIDDLE MAIDEN
23. AGE (At Time of this Delivery)
24. STATE OF BIRTH (If not U.S. give country)
25. RESIDENCE (Number and Street)
26. CITY/TOWN/LOCATION
27. INSIDE CITY LIMITS ☐ YES ☐ NO
28. COUNTY
29. STATE

DISPOSITION

30. BURIAL, CREMATION, REMOVAL, OTHER (Specify)
31. DATE (Mo-Day-Yr)
32. CEMETERY/CREMATORY—NAME
33. LOCATION—CITY/TOWN, STATE
34. FUNERAL DIRECTOR SIGNATURE
X
35. NAME OF FACILITY
36. ADDRESS OF FACILITY
36A. REGISTRAR SIGNATURE
X
36B. DATE RECEIVED BY REGISTRAR (Mo-Day-Yr.)

SAMPLE

CONFIDENTIAL INFORMATION FOR MEDICAL AND RESEARCH USE ONLY

FATHER

37-A. RACE (White, Black, American Indian, etc.) (specify)
37-B. OF HISPANIC ORIGIN? (Specify yes or no) If yes, specify Cuban, Mexican, Puerto Rican, etc. 1. ☐ Yes 2. ☐ No
38. OCCUPATION (Indicate most recent employment) (pressman, painter, computer programmer) (specify)
39. TYPE OF BUSINESS OR INDUSTRY (grain mill, hwy. construction, nuclear) (specify)
40. EDUCATION—Highest Grade Completed (0-17+)

MOTHER

41-A. RACE (White, Black, American Indian, etc.) (specify)
41-B. OF HISPANIC ORIGIN? (Specify yes or no) If yes, specify Cuban, Mexican, Puerto Rican, etc. 1. ☐ Yes 2. ☐ No
42. OCCUPATION (Indicate most recent employment) (fruit packer, cashier, registered nurse) (specify)
43. TYPE OF BUSINESS OR INDUSTRY (apple orchard, retail sales, hospital) (specify)
44. EDUCATION—Highest Grade Completed (0-17+)

PREGNANCY HISTORY

45. PRIOR LIVE BIRTHS ☐ NONE

	NOW LIVING	NOW DEAD
37 WEEKS OR MORE (Full term)		
LESS THAN 37 WEEKS (Premature)		

DATE LAST LIVE BIRTH (Mo. Yr.)

46. OTHER PREGNANCY OUTCOMES (Not live births) (Do not include this delivery) ☐ NONE

	SPONTANEOUS	INDUCED (Any Gest. Age)
37 WEEKS OR MORE		
20-36 WEEKS		
LESS THAN 20 WEEKS		

DATE LAST OTHER PREGNANCY OUTCOME (Mo. Yr.)

47. IS MOTHER MARRIED? ☐ Yes ☐ No
48. TOTAL PRIOR PREGNANCIES
49. DATE LAST NORMAL MENSES BEGAN Mo. Day Yr.
50. MONTH OF PREGNANCY PRENATAL CARE BEGAN (1st, 2nd, 3rd, etc.)
51. TOTAL NUMBER OF PRENATAL VISITS (If none, enter 0)
52. AMNIOCENTESIS (Indicate Trimester) ☐ 1st ☐ 2nd ☐ 3rd ☐ Not done ☐ Unknown
53. DID MOTHER SMOKE AT ANY TIME DURING PREGNANCY? ☐ Yes ☐ No ☐ Unknown
54. THIS FETUS (Single, Twin, etc., Specify)
55. IF NOT SINGLE (Delivered 1st, 2nd, etc.)
56. FETUS WEIGHT (Specify Unit)
57. WAS MOTHER TRANSFERRED TO ANOTHER FACILITY? ☐ Yes ☐ No ☐ Unknown

COMPLICATIONS (check all boxes that apply)

58. COMPLICATIONS DURING OR RELATED TO PREGNANCY (Maternal)
- ☐ 0. None
- ☐ 1. Diabetes (gestational)
- ☐ 2. Diabetes (established)
- ☐ 3. Chronic Hypertension
- ☐ 4. Pyelonephritis
- ☐ 5. Epilepsy
- ☐ 6. Preeclampsia
- ☐ 7. Eclampsia
- ☐ 8. Rh Sensitization
- ☐ 9. Herpes-active___ Hx___
- ☐ 10. Syphilis
- ☐ 11. Rubella
- ☐ 12. Polyhydramnios
- ☐ 13. Other (specify Below)

59. COMPLICATIONS OF LABOR
- ☐ 0. None
- ☐ 1. Abruptio placenta
- ☐ 2. Placenta previa
- ☐ 3. Rupture of uterus
- ☐ 4. Cord prolapse
- ☐ 5. Membranes ruptured >24hrs.
- ☐ 6. Breech
- ☐ 7. Cephalopelvic disproportion
- ☐ 8. Prolonged labor
- ☐ 9. Augmented labor
- ☐ 10. Other (specify below)

60. METHOD OF DELIVERY
- ☐ 1. Spontaneous
- ☐ 2. Vacuum extraction
- ☐ 3. Outlet forceps
- ☐ 4. Induced labor
- ☐ 5. Primary C-section
- ☐ 6. Repeat C-section
- ☐ 7. Vaginal delivery after previous C section
- ☐ 8. Other (specify below)

61. CONDITIONS OF FETUS
- ☐ 0. None
- ☐ 1. Fetal Hemorrhage
- ☐ 2. Placenta and Cord conditions (specify)
- ☐ 3. Hemolytic Disease
- ☐ 4. Fetal Hydrops
- ☐ 5. Shoulder Dystocia
- ☐ 6. Other (specify below)

62. CONGENITAL MALFORMATIONS OR ANOMALIES OF FETUS
- ☐ 0. None
- ☐ 1. Anencephalus
- ☐ 2. Spina bifida, meningocele
- ☐ 3. Hydrocephalus
- ☐ 4. Microcephalus
- ☐ 5. Heart malformations (specify below)
- ☐ 6. Cleft lip
- ☐ 7. Cleft palate
- ☐ 8. Anal atresia/stenosis
- ☐ 9. Downs Syndrome
- ☐ 10. T.E. fistula, esophageal atresia
- ☐ 11. Hypospadias
- ☐ 12. Omphalocele
- ☐ 13. Polydactyly
- ☐ 14. Syndactyly
- ☐ 15. Adactyly
- ☐ 16. Other limb reduction
- ☐ 17. Congenital dislocation of hip
- ☐ 18. Club foot
- ☐ 19. Other malformations (specify below)

DSHS 9-196 (Rev. 1-88) -1066- 3

STATE OF WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES

VITAL RECORDS

CERTIFICATE OF MARRIAGE

146-8

TYPE OR PRINT ENTIRE FORM IN PERMANENT BLACK INK

COUNTY OF LICENSE | DATE | STATE FILE NUMBER

OFFICIANT	I CERTIFY THE PERSONS NAMED BELOW WERE MARRIED ON ● ● ● ● ● ●	1. DATE (MO DAY YR)	2. COUNTY OF CEREMONY	3. RELIGIOUS/CIVIL CEREMONY (SPECIFY)	4. DATE SIGNED (MO DAY YR)
	5. OFFICIANT Signature X		6. OFFICIANT ADDRESS		
GROOM	7 NAME (FIRST MIDDLE LAST)			8 BIRTHDATE (MO DAY YR)	9 BIRTH STATE (IF NOT USA GIVE COUNTRY)
	10. USUAL RESIDENCE (NUMBER AND STREET)	11 CITY/TOWN/LOCATION	12 INSIDE CITY LIMITS (YES/NO)	13 COUNTY	14 STATE
	15 FATHER'S NAME	BIRTH STATE (IF NOT USA GIVE COUNTRY)	17 MOTHER'S MAIDEN NAME		18 BIRTH STATE (IF NOT USA GIVE COUNTRY)
	19 GROOM Signature X				20. DATE SIGNED (MO DAY YR)
BRIDE	21 NAME (FIRST MIDDLE LAST)		22 MAIDEN NAME (IF DIFFERENT)	23 BIRTHDATE (MO DAY YR)	24 BIRTH STATE (IF NOT USA GIVE COUNTRY)
	25 USUAL RESIDENCE (NUMBER AND STREET)	26 CITY/TOWN/LOCATION	27 INSIDE CITY LIMITS (YES/NO)	28 COUNTY	29 STATE
	30 FATHER'S NAME	31 BIRTH STATE (IF NOT USA GIVE COUNTRY)	32 MOTHER'S MAIDEN NAME		33 BIRTH STATE (IF NOT USA GIVE COUNTRY)
	34 BRIDE Signature X				35 DATE SIGNED (MO DAY YR)
	36 WITNESS Signature X		37 WITNESS Signature X		
	38 COUNTY AUDITOR Signature X				39 DATE RECEIVED (MO DAY YR)

SAMPLE

B 57103

DSHS 9-170 (REV 1-87) 1200 3

STATE OF WASHINGTON DEPARTMENT OF SOCIAL AND HEALTH SERVICES

VITAL RECORDS

CERTIFICATE OF DISSOLUTION, DECLARATION OF INVALIDITY OF MARRIAGE OR LEGAL SEPARATION

146-8

COURT FILE NUMBER | STATE FILE NUMBER

DECREE	I CERTIFY THE MARRIAGE OF THE PERSONS NAMED BELOW WAS ORDERED AS A ● ● ● ● ●	1 DISSOLUTION OF MARRIAGE ☐ DECLARATION OF INVALIDITY ☐ LEGAL SEPARATION ☐	2 DATE OF ENTRY (MO DAY YR)	3 COUNTY OF DECREE	
	4 CLERK OF SUPERIOR COURT Signature X				

TO BE COMPLETED BY PETITIONER OR ATTORNEY

HUSBAND	5 NAME FIRST MIDDLE LAST			6 DATE OF BIRTH (MO DAY YR)	7 BIRTHPLACE (State or Foreign Country)
	8 USUAL RESIDENCE - STREET ADDRESS	CITY, TOWN OR LOCATION	10 INSIDE CITY LIMITS (Specify YES or NO)	11 COUNTY	12 STATE
WIFE	13 NAME FIRST MIDDLE LAST		14 MAIDEN NAME (IF DIFFERENT THAN MARRIED NAME)	15 DATE OF BIRTH (MO DAY YR)	16 BIRTHPLACE (State or Foreign Country)
	17 USUAL RESIDENCE - STREET ADDRESS	CITY, TOWN OR LOCATION	19 INSIDE CITY LIMITS (Specify YES or NO)	20 COUNTY	21 STATE
	22 PLACE OF THIS MARRIAGE - COUNTY	23 STATE (IF NOT USA GIVE COUNTRY)	24 DATE OF THIS MARRIAGE (mo day yr)	25 NUMBER CHILDREN BORN ALIVE ~~OF THIS MARRIAGE (Specify)~~	
	26 PETITIONER (HUSBAND, WIFE, BOTH, OTHER SPECIFY)	27 ATTORNEY FOR PETITIONER - NAME (Type or Print)	28 ADDRESS - STREET CITY OR TOWN STATE ZIP CODE		

SAMPLE

3 11505

DSHS 9-171 (REV 9-86) 887

DEPARTMENT OF SOCIAL & HEALTH SERVICES

REPORT OF INDUCED TERMINATION OF PREGNANCY

State File Number

1a. Facility Identification Number

1b. Patient Identification Number

2. Age of Patient

3. Date of Pregnancy Termination ____ / ____ / ____ (Mo. / Day / Yr.)

4a. Residence—State

4b. County

4c. City, Town, or Location

5. Race of Patient
1 ☐ White
2 ☐ Black
3 ☐ American Indian or Alaskan Native
4 ☐ Asian or Pacific Islander
5 ☐ Other (specify)
9 ☐ Unknown

5b. Ethnic Origin: Hispanic
1 ☐ Yes

PREVIOUS PREGNANCIES (Complete Each Section)

6a. SPONTANEOUS ABORTIONS (Stillbirths & Miscarriages)
Number ____
None 00 ☐

6b. LIVE BIRTHS
Number ____
None 00 ☐

6c. INDUCED ABORTIONS (Do not include this termination)
Number ____
None 00 ☐

7a. Primary Procedure Used To Terminate Pregnancy (check only one)	TYPE OF TERMINATION PROCEDURES	7b. Additional Procedures Used for This Termination, If Any (check all that apply)
1 ☐	Suction Curettage	☐ 1
2 ☐	Dilatation and Evacuation	☐ 2
3 ☐	Sharp Curettage	☐ 3
4 ☐	Saline	☐ 4
5 ☐	Prostaglandin	☐ 5
6 ☐	Hysterotomy	☐ 6
7 ☐	Hysterectomy	☐ 7
8 ☐	Other (specify)	☐ 8

8. Complications of Procedure(s) used (check all that apply)
0 ☐ None
1 ☐ Hemorrhage
2 ☐ Infection
3 ☐ Uterine Perforation
4 ☐ Cervical Laceration
5 ☐ Retained Products
6 ☐ Failed Abortion
☐ Other (specify) ____

9. Date Last Normal Menses Began ____ / ____ / ____ (Mo. / Day / Yr.)

10. Physician's Estimate of Gestation ____ weeks

11. Name of Attending Physician (type or print)

12. Name of Person Completing Report (type or print)

Title

13. Completion Date of This Report ____ / ____ / ____ (Mo. / Day / Yr.)

SAMPLE

DSHS 13-151 (Rev. 12/85) 1031

SEE INSTRUCTIONS ON BACK